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IN VITRO GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS IN SERUM-FREE MEDIUM

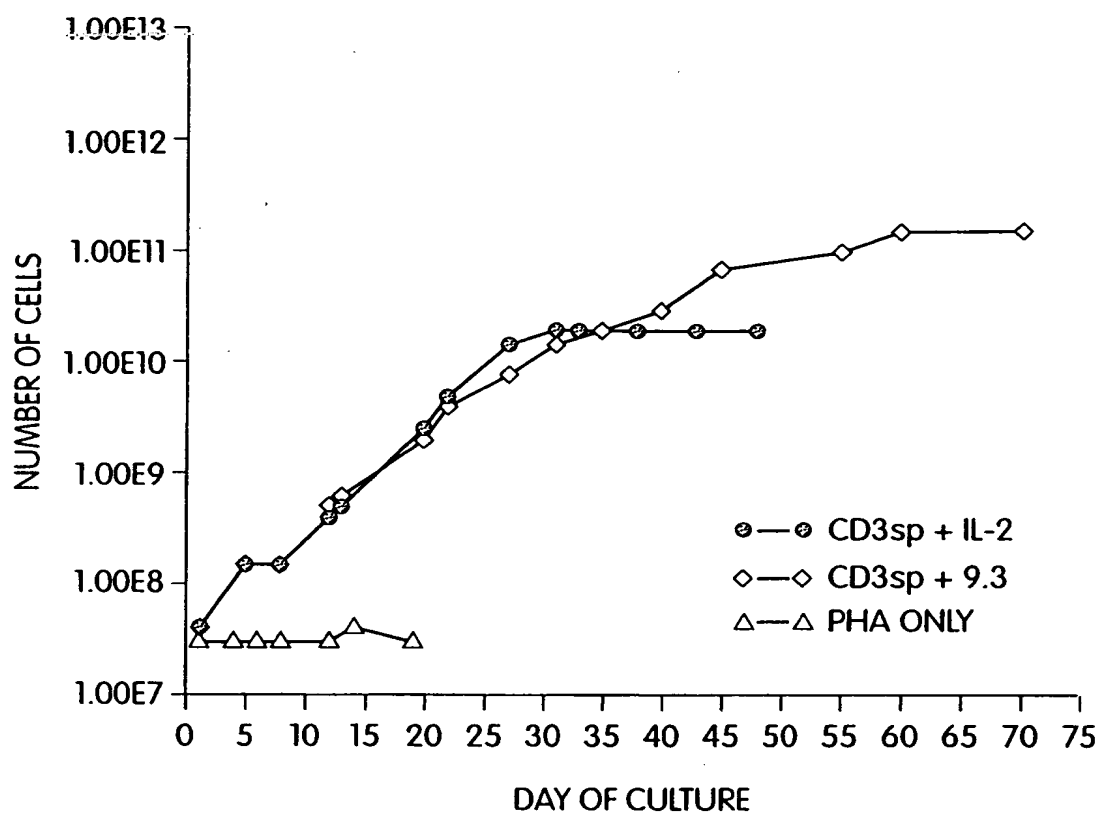
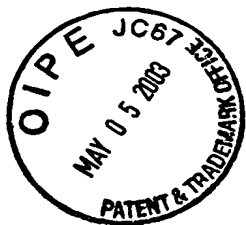


FIG. 1



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GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS IN RPMI PLUS 10% FETAL CALF SERUM

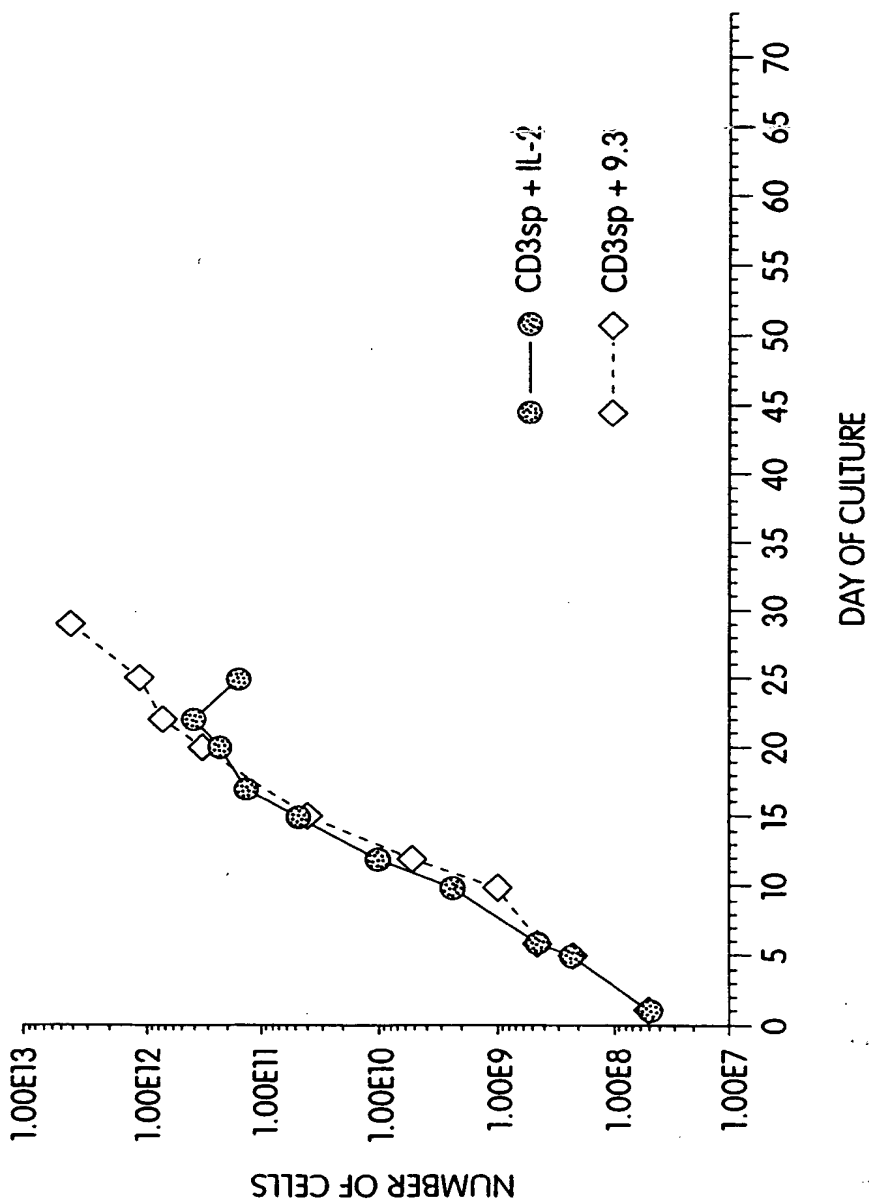
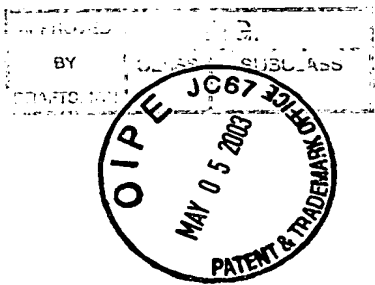


FIG. 2



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GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS

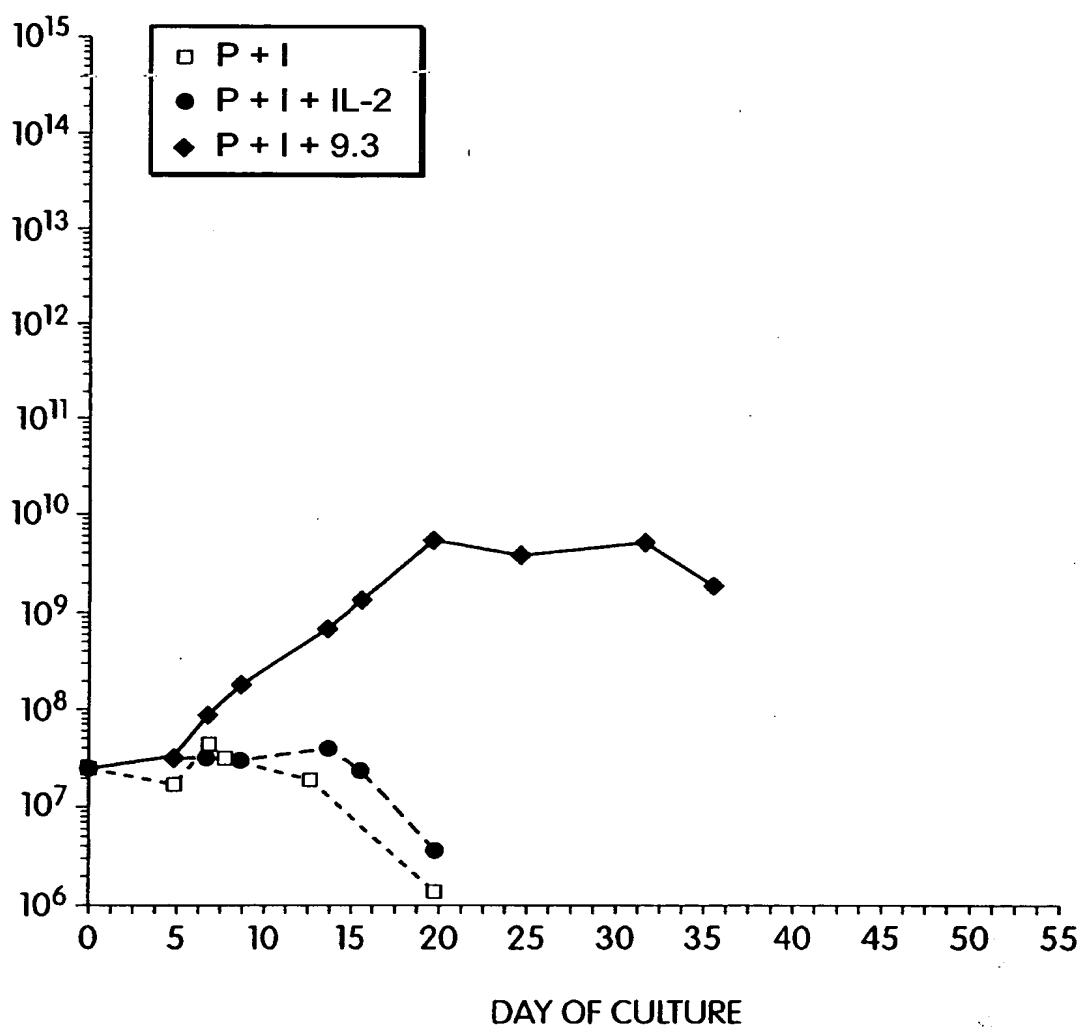
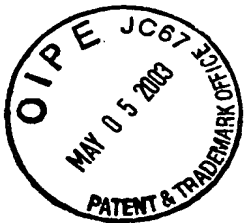
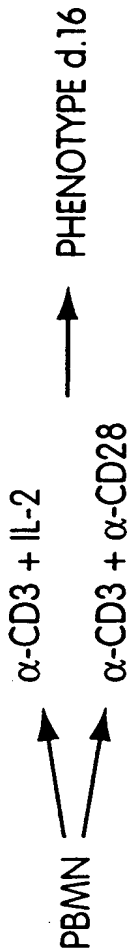


FIG. 3



SELECTIVE OUTGROWTH OF CD4+ T CELLS DURING
CD28 STIMULATED T CELL EXPANSION



CULTURE	DAY 0		DAY 16	
	CD4	CD8	CD4	CD8
CD3 + IL-2	30.9	13.9	8.0	84.5
CD3 + CD28			44.6	52.5

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FIG. 4

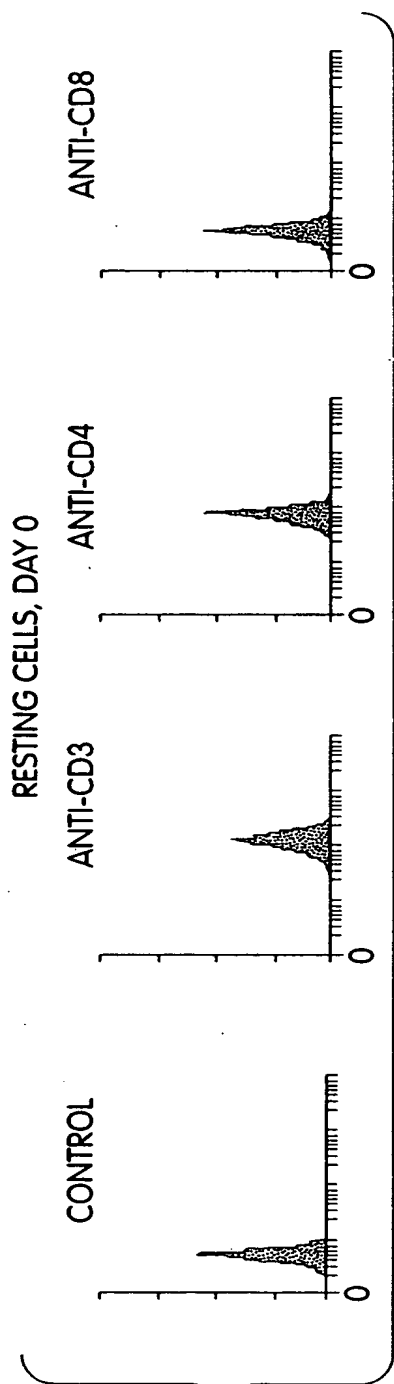


FIG. 5A

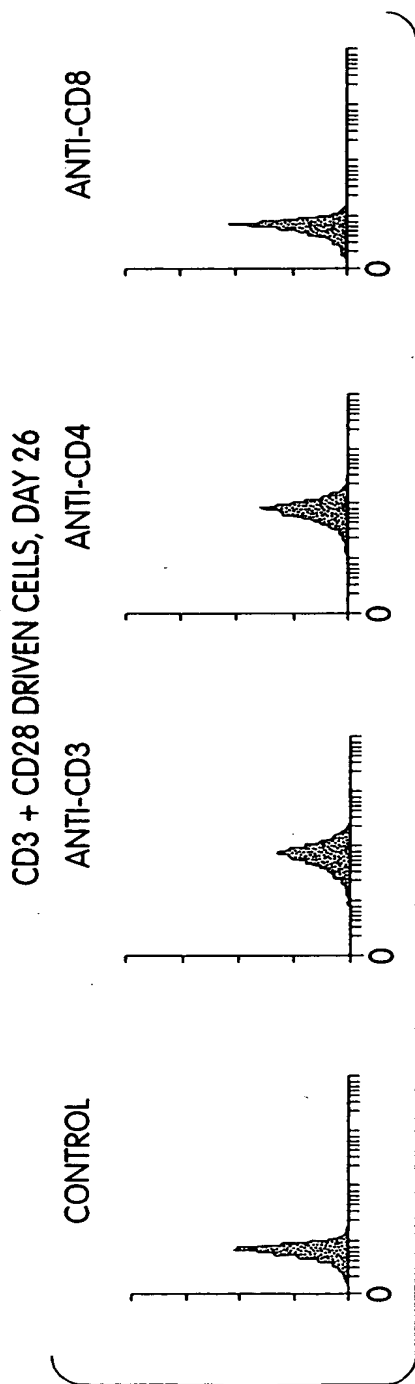


FIG. 5B

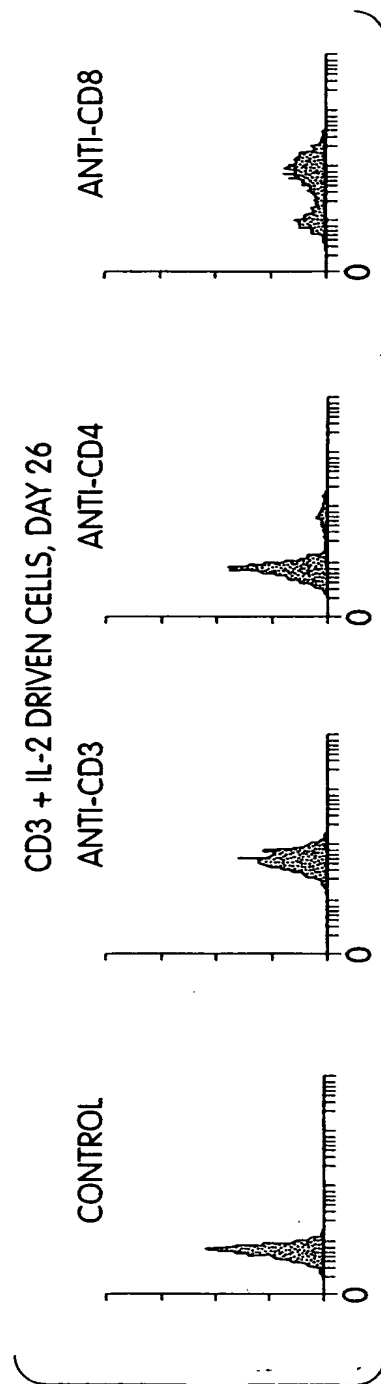


FIG. 5C

mAb EX5.3D10
CHO-DG44 CELLS

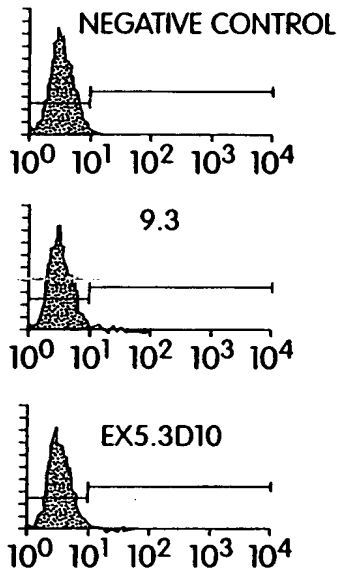


FIG. 6A

mAb EX5.3D10
CHO-hh CELLS

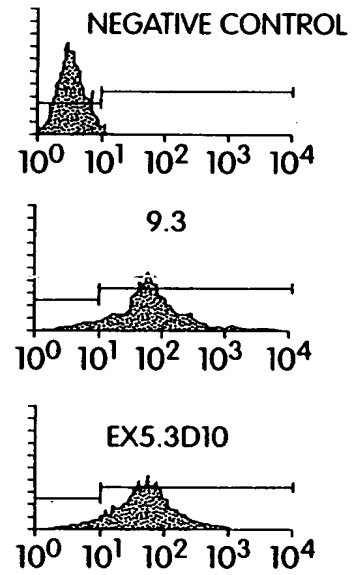


FIG. 6B

mAb EX5.3D10
UNACTIVATED PBLs

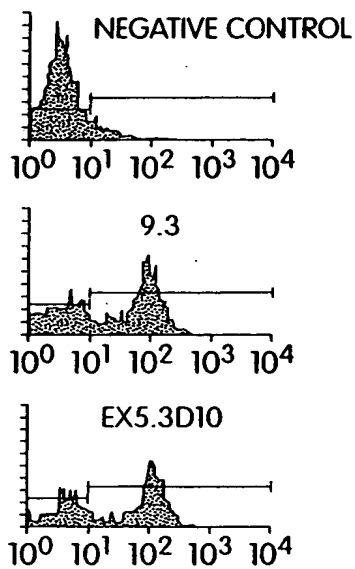


FIG. 6C

mAb EX5.3D10
JURKAT #7 CELLS

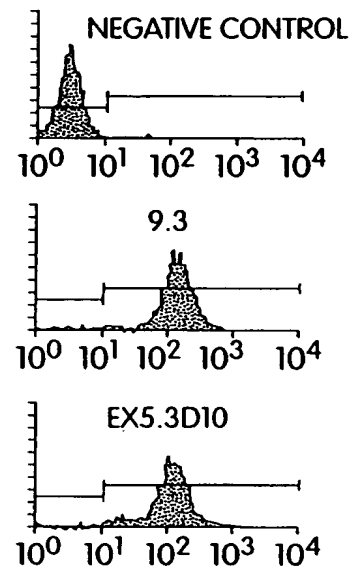
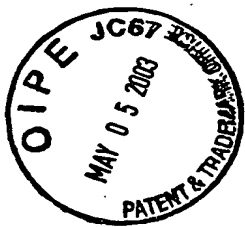


FIG. 6D



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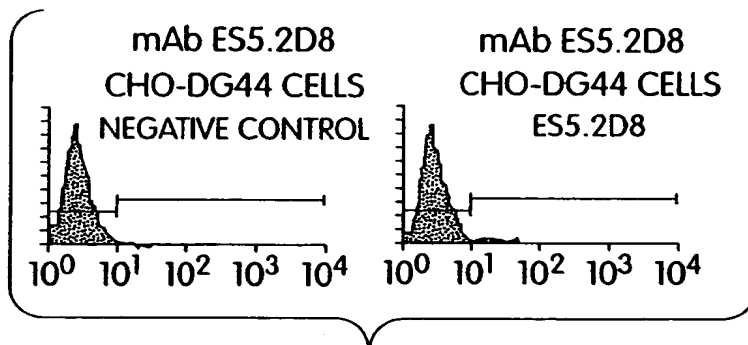


FIG. 7A

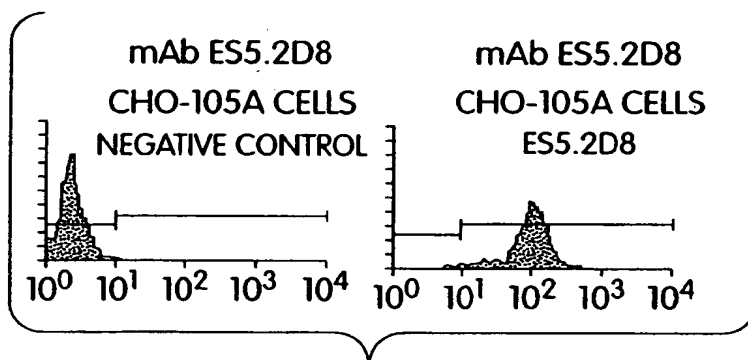


FIG. 7B

hPBLs:

UNACTIVATED

NEGATIVE CONTROL

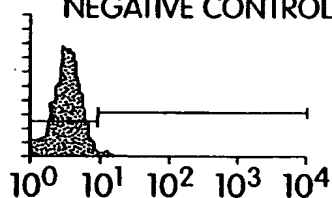


FIG. 7C

hPBLs:

PMA ACTIVATED

ES5.2D8.BIO.E3

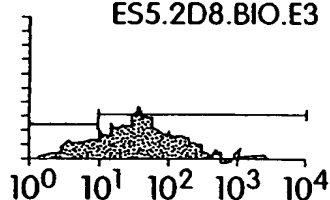


FIG. 7D

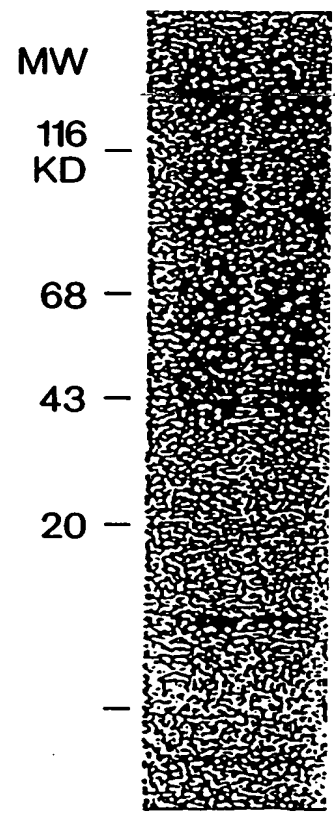
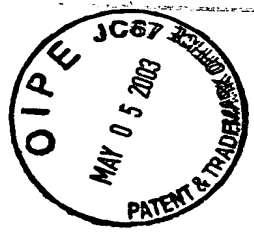
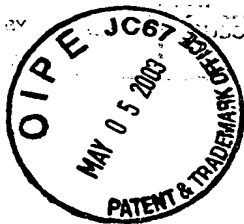


FIG. 8



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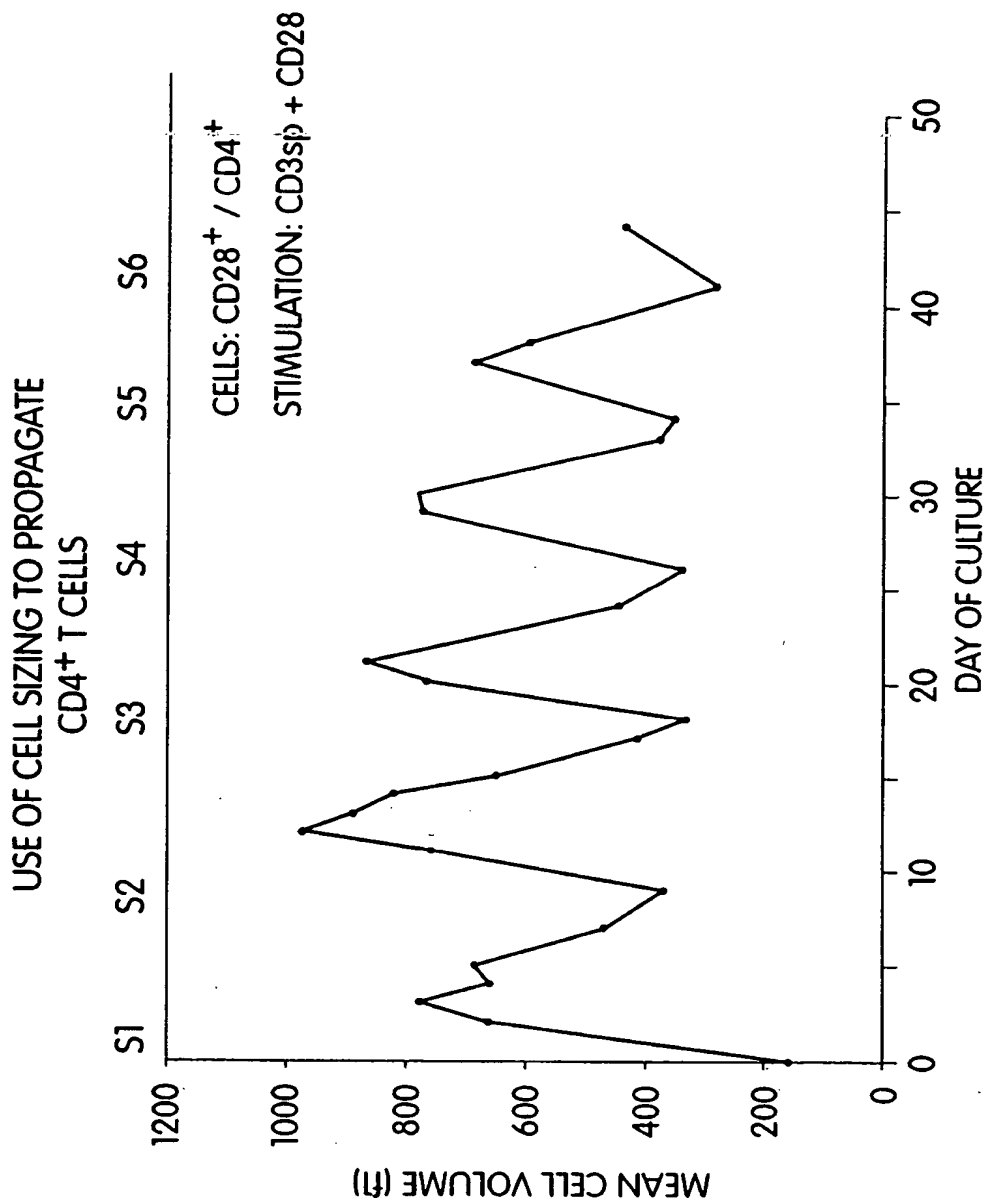
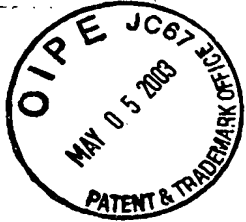


FIG. 9



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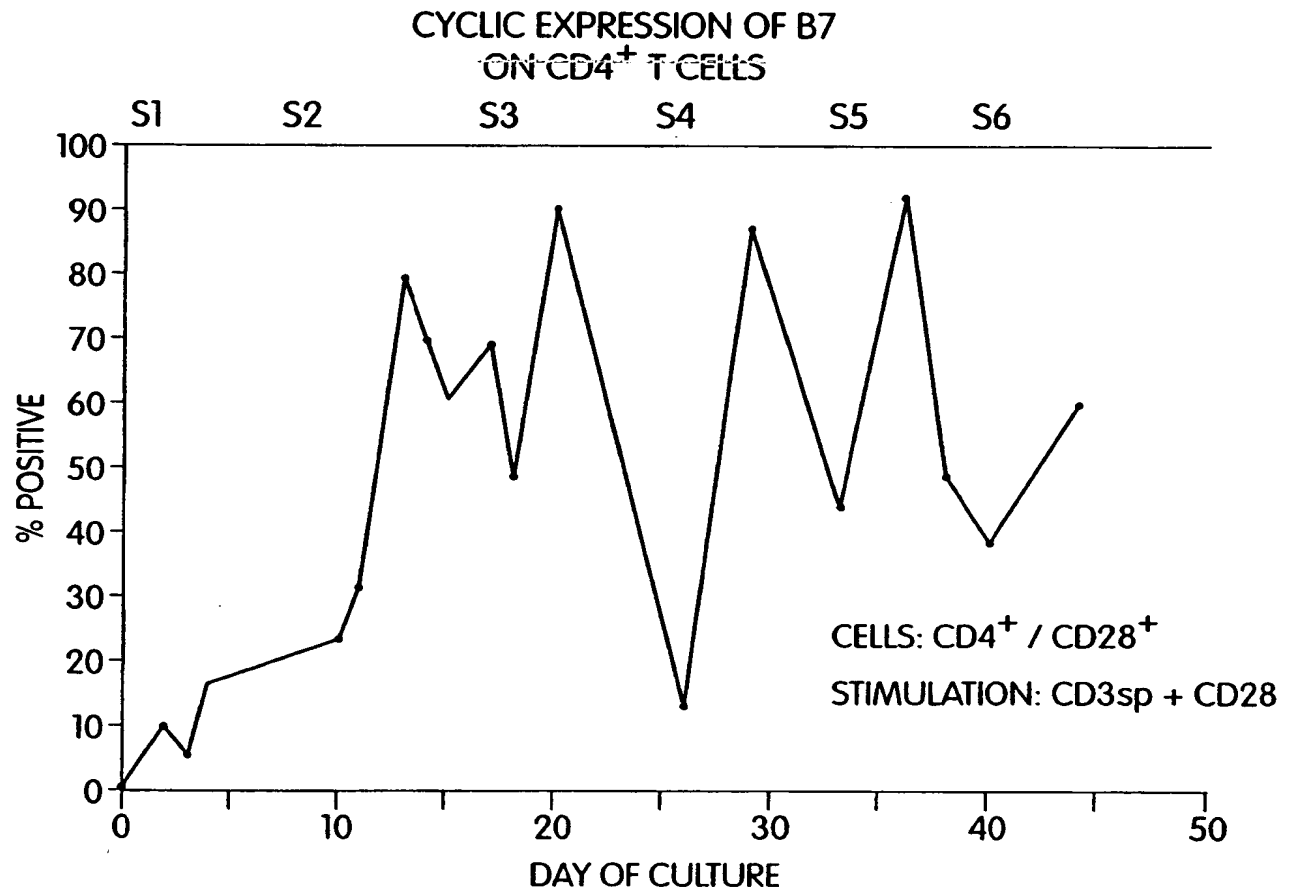
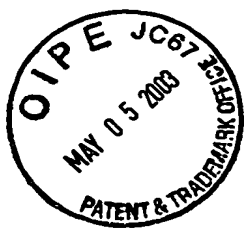


FIG. 10

APPROVED	BY	CLASS	SUBCLASS



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

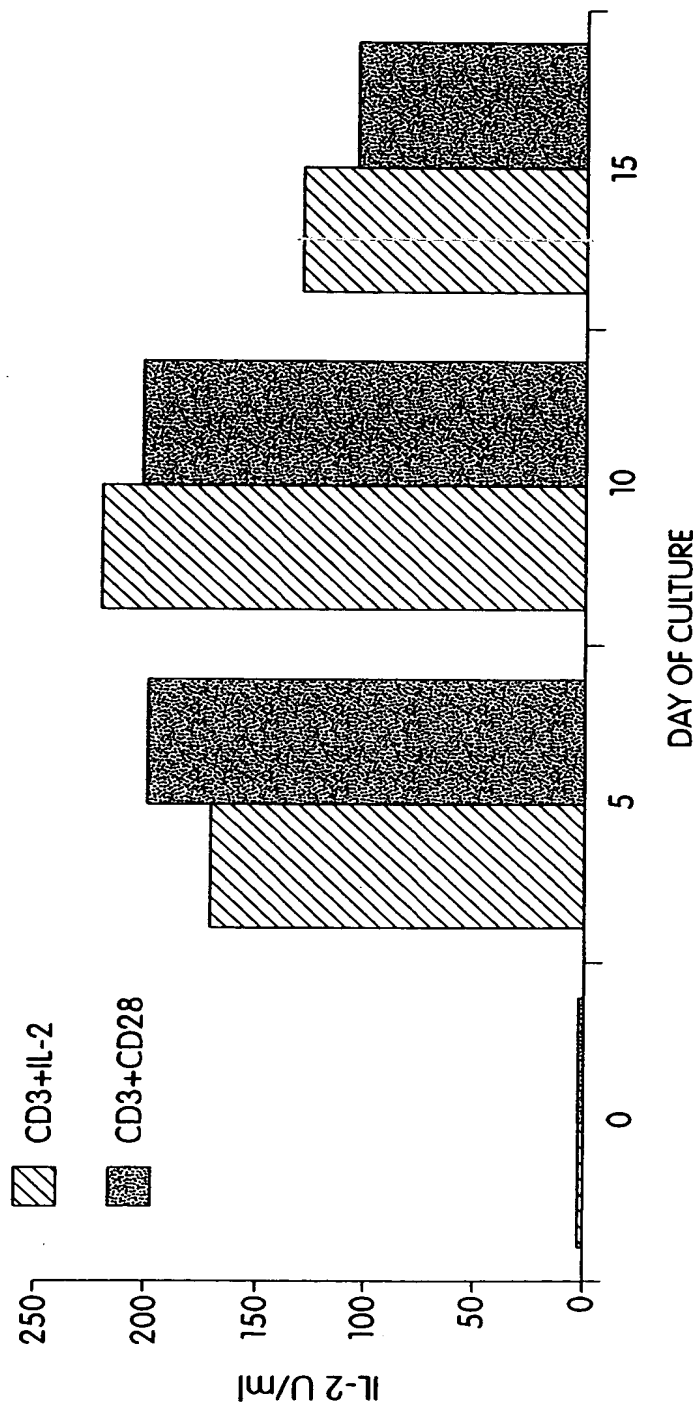
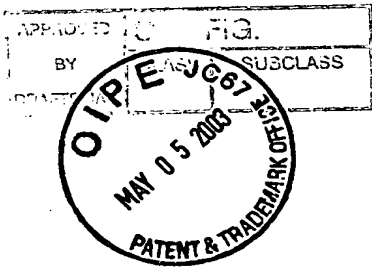


FIG. 11



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

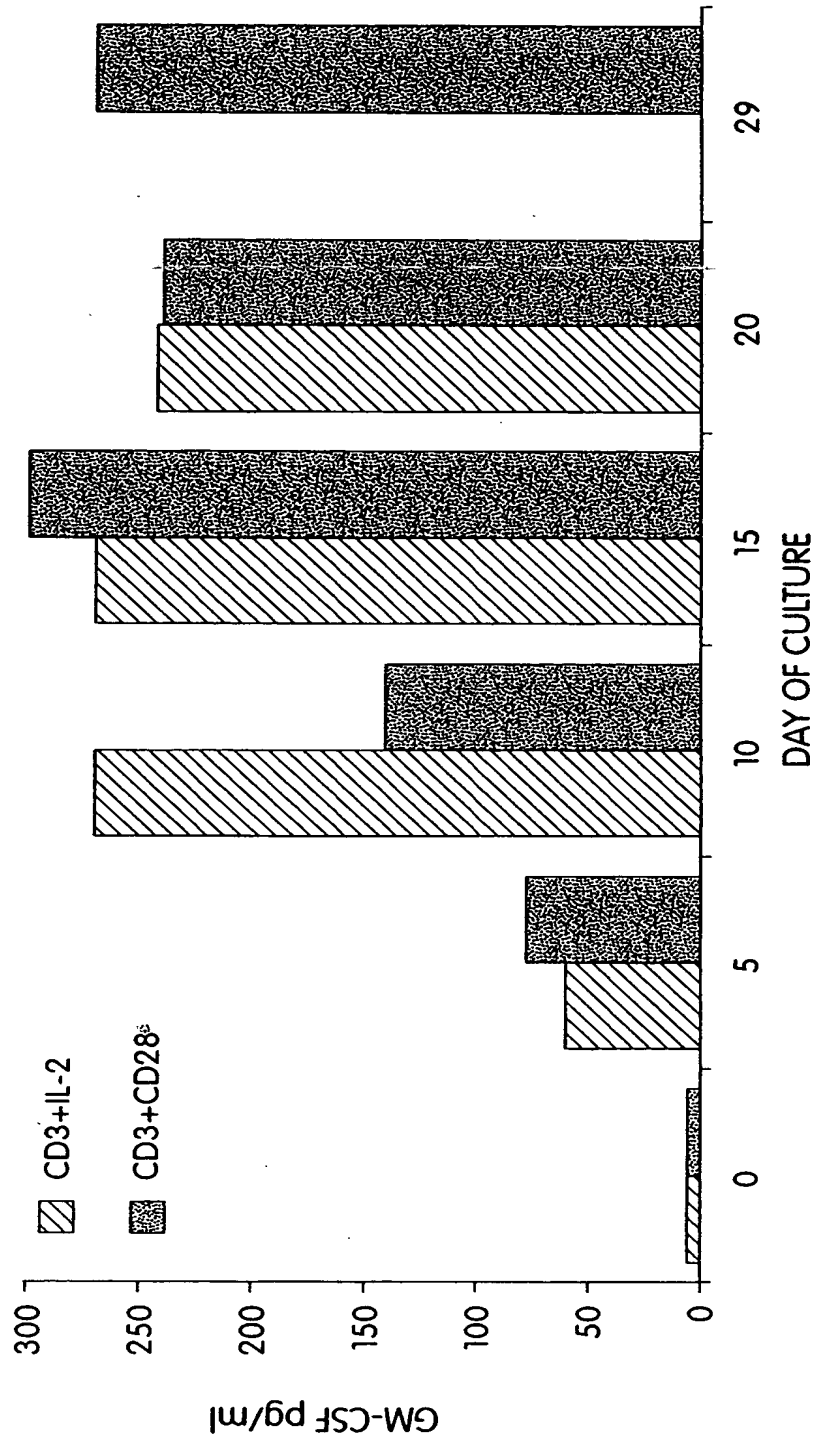
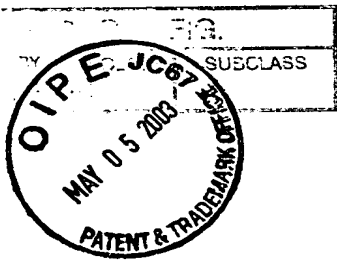


FIG. 12



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

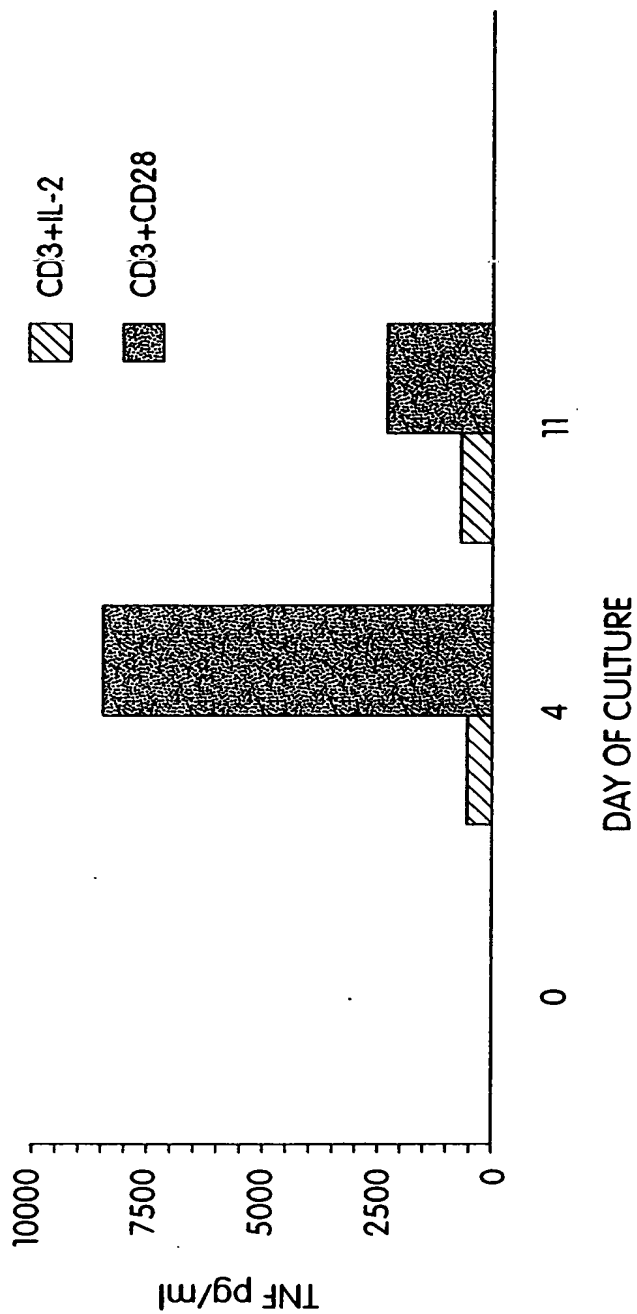
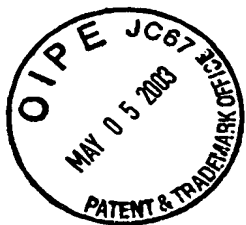


FIG. 13



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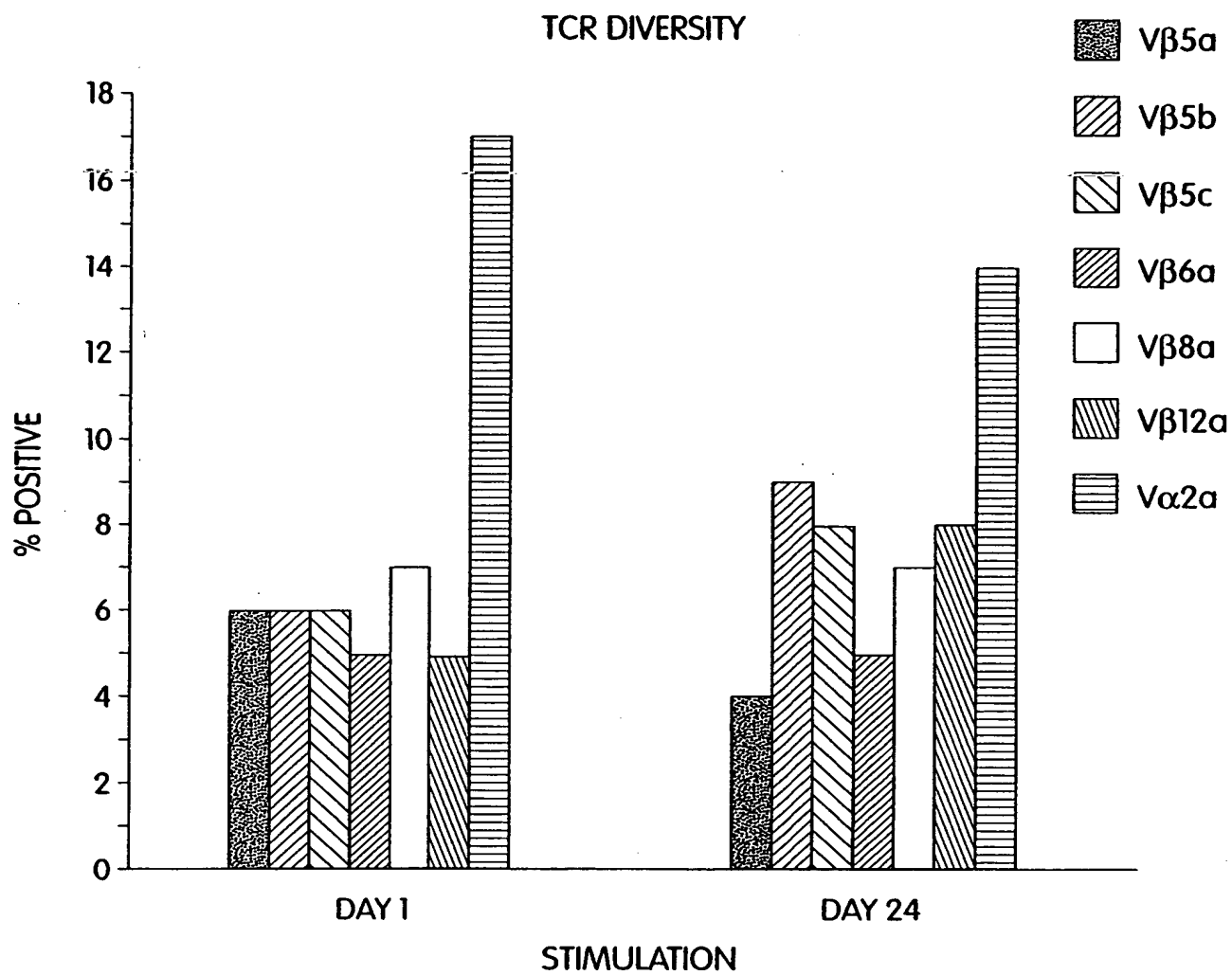
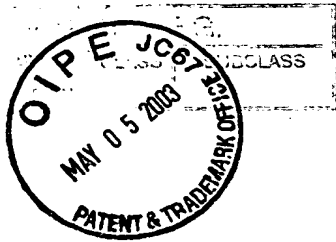


FIG. 14



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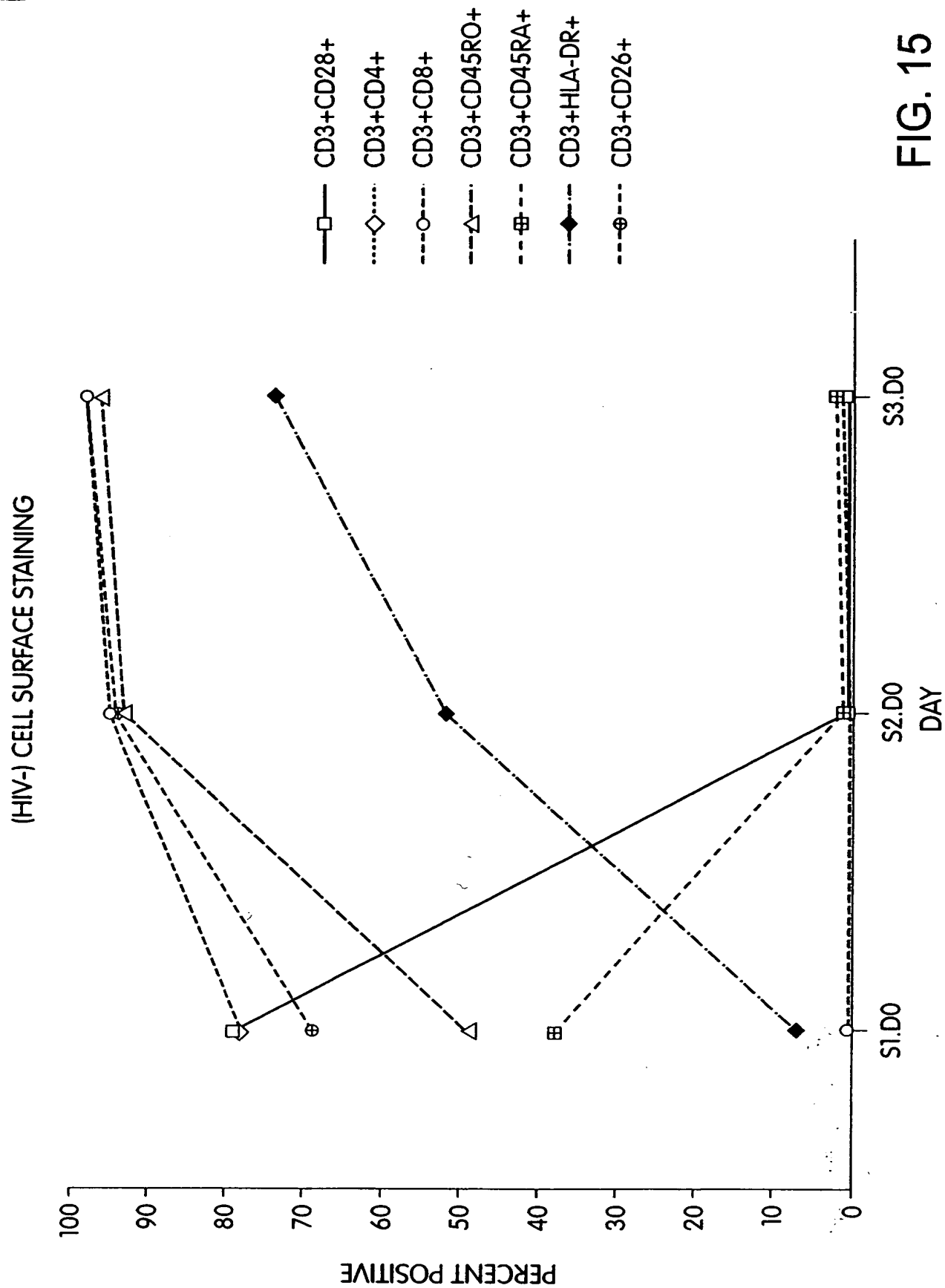
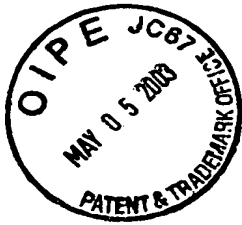


FIG. 15



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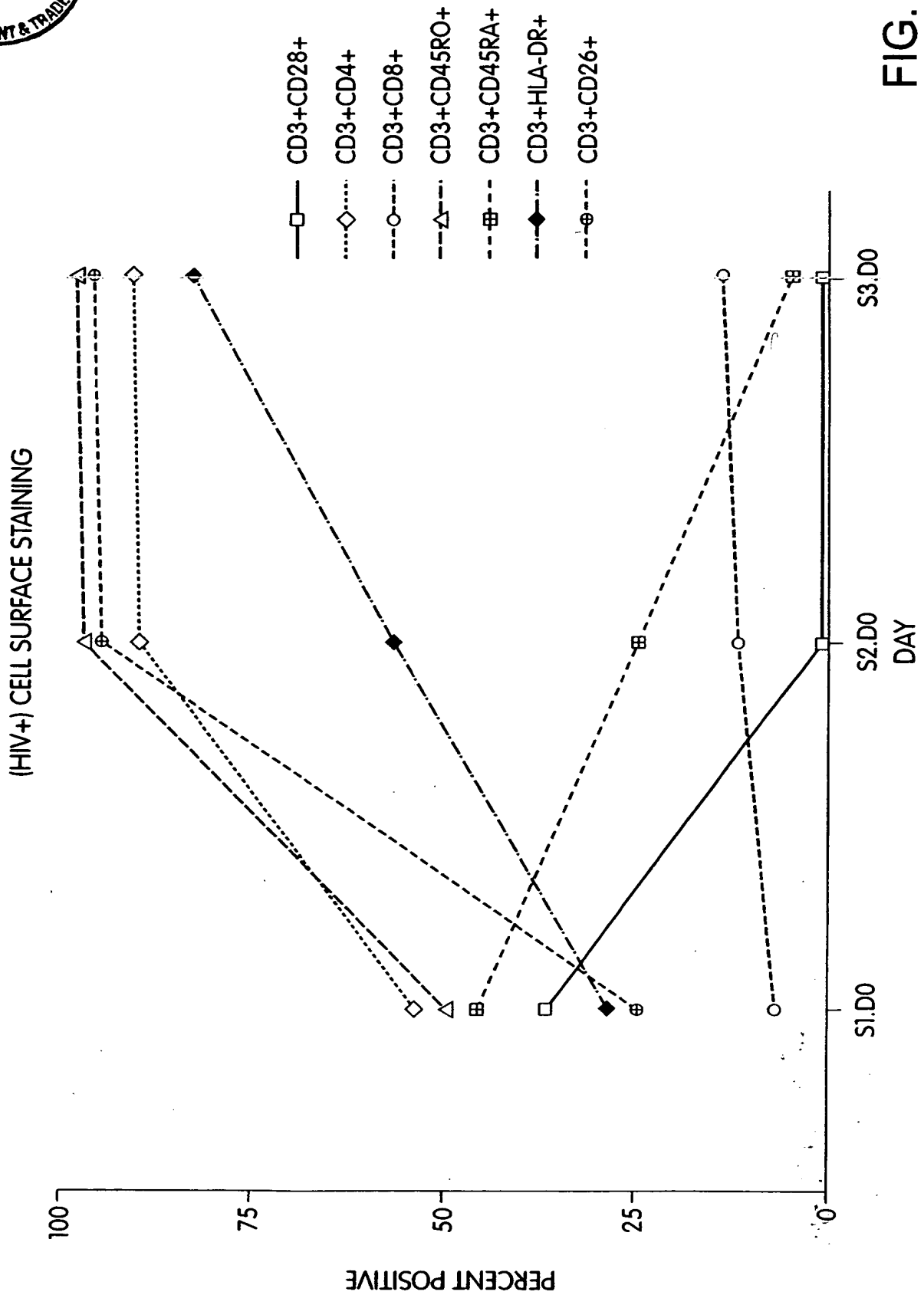
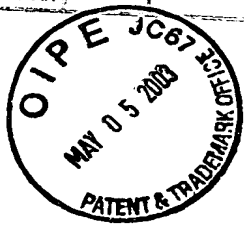
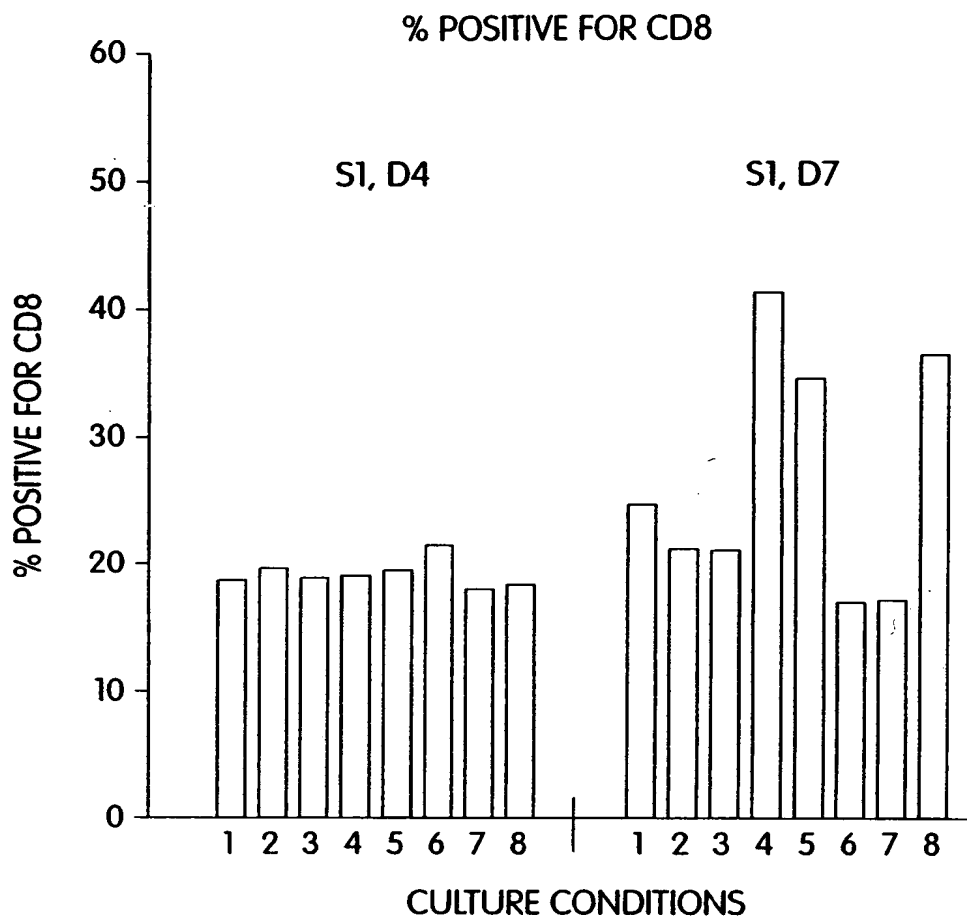


FIG. 16

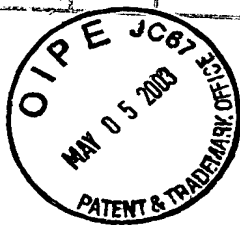


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- #1: G19-4sp + IL-2
- #2: G19-4sp + 9.3
- #3: G19-4sp + EX5.3D10
- #4: G19-4sp + ES5.2D8
- #5: G19-4sp + 7G11
- #6: G19-4sp + 9.3 + ES5.2D8
- #7: G19-4sp + 9.3 + 7G11
- #8: G19-4sp + ES5.2D8 + 7G11

FIG. 17



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CELLS STAINED
WITH: IgG

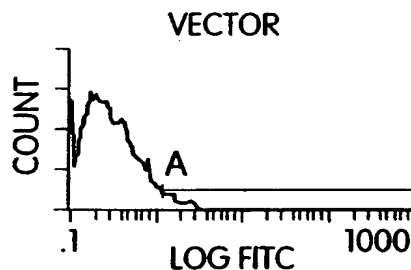


FIG. 18A

CELLS STAINED
WITH: IgG

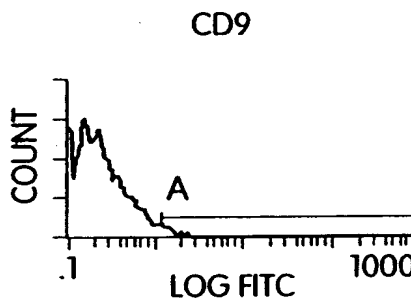


FIG. 18B

CELLS STAINED
WITH: mAb ES5.2D8

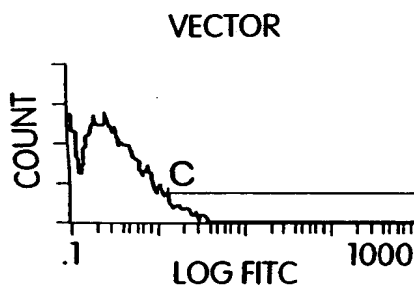


FIG. 18C

CELLS STAINED
WITH: mAb ES5.2D8

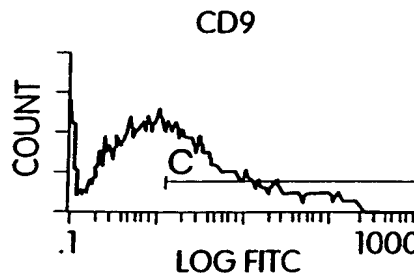
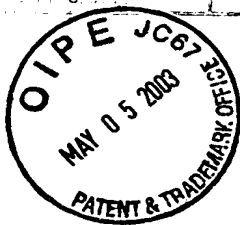


FIG. 18D



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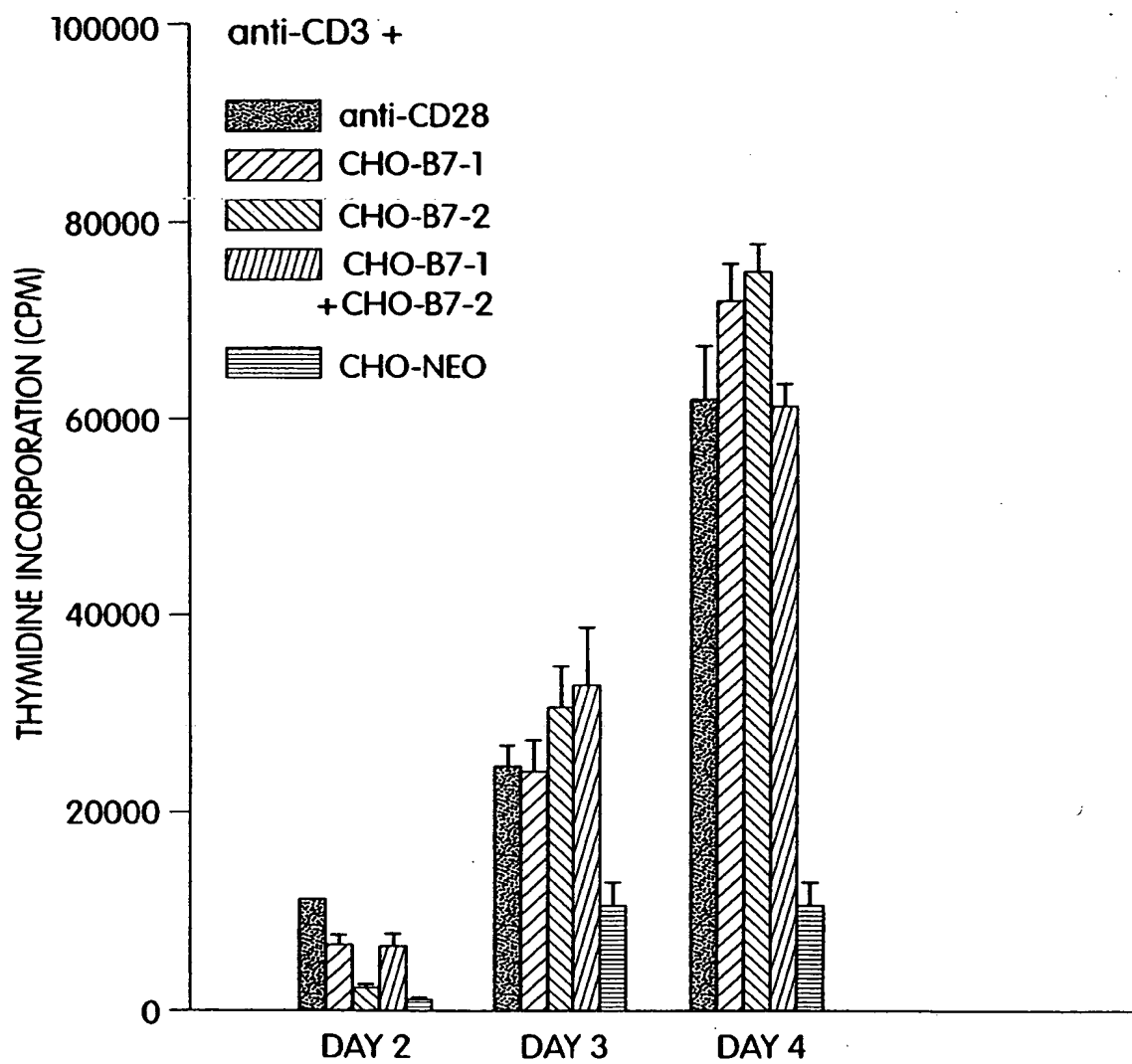
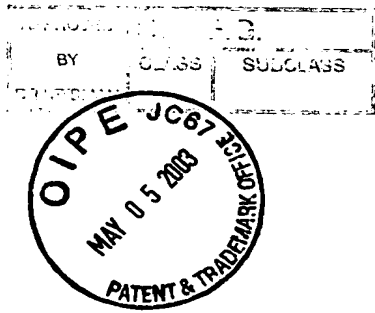


FIG. 19



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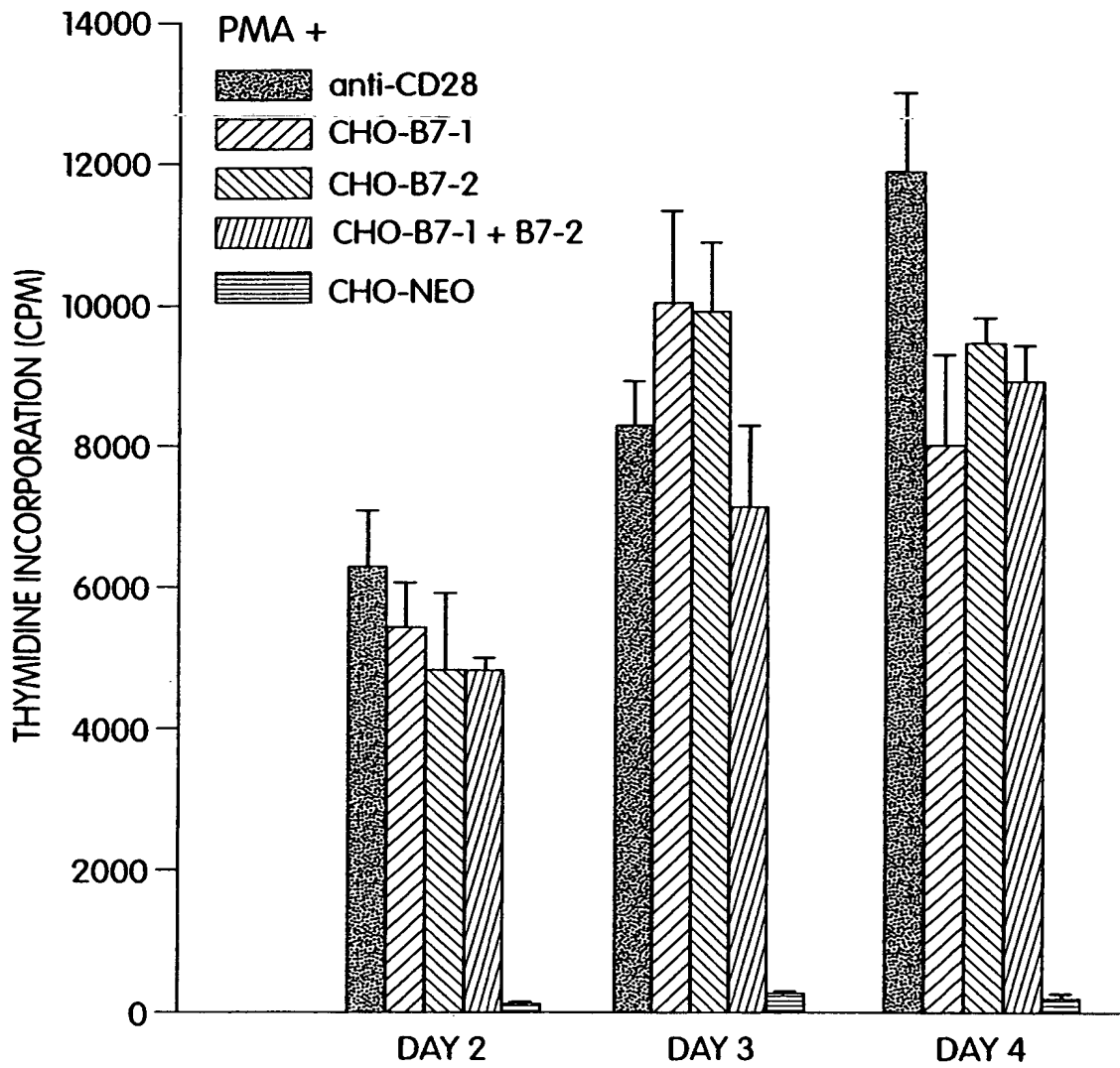
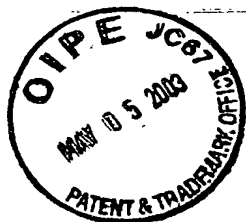


FIG. 20



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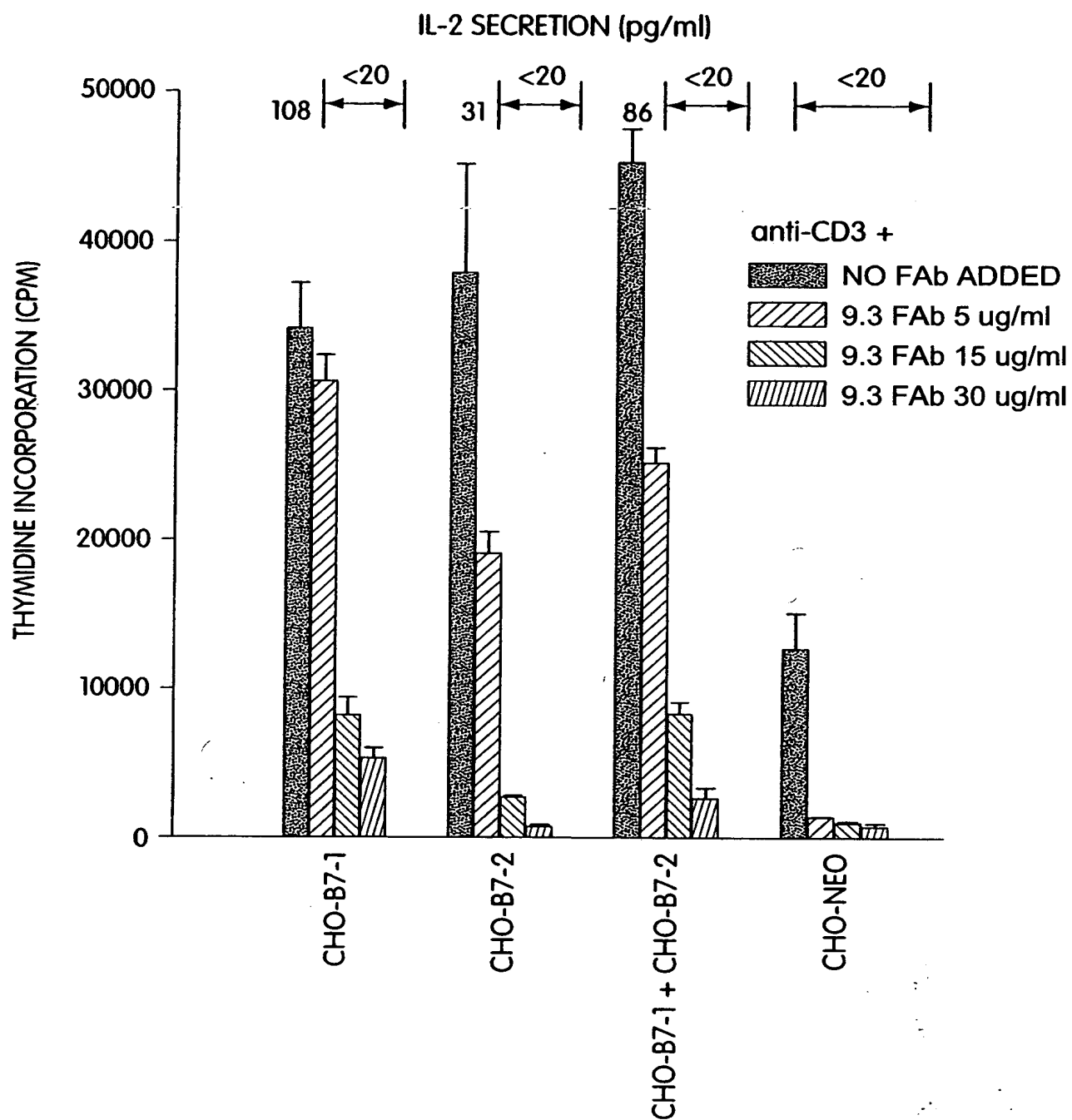
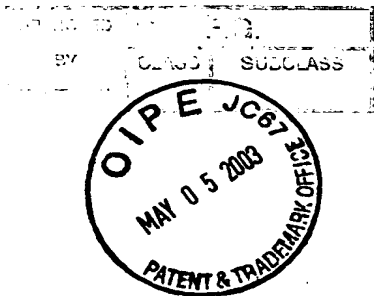


FIG. 21



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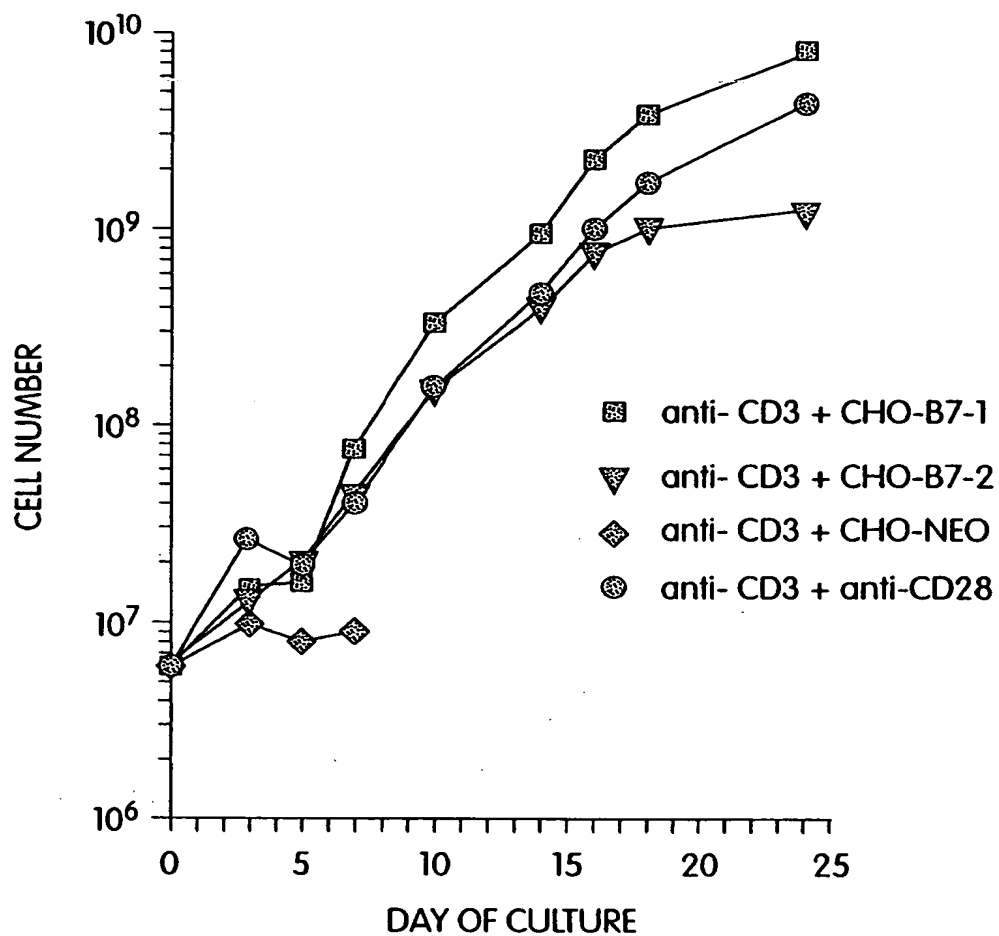


FIG. 22

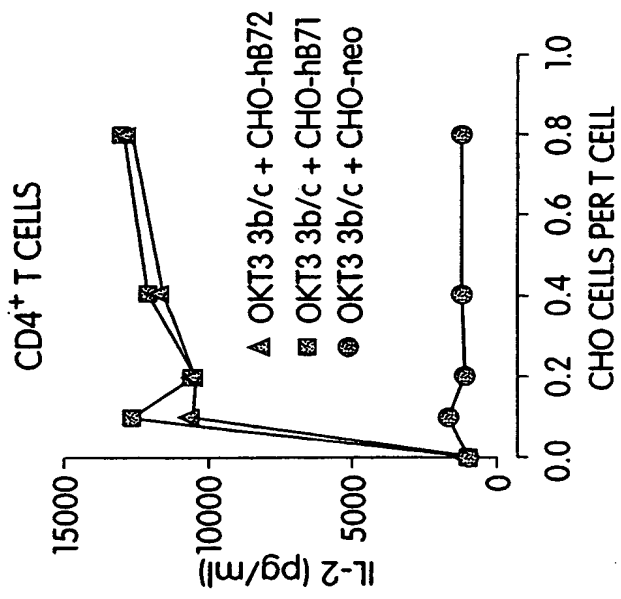


FIG. 23A

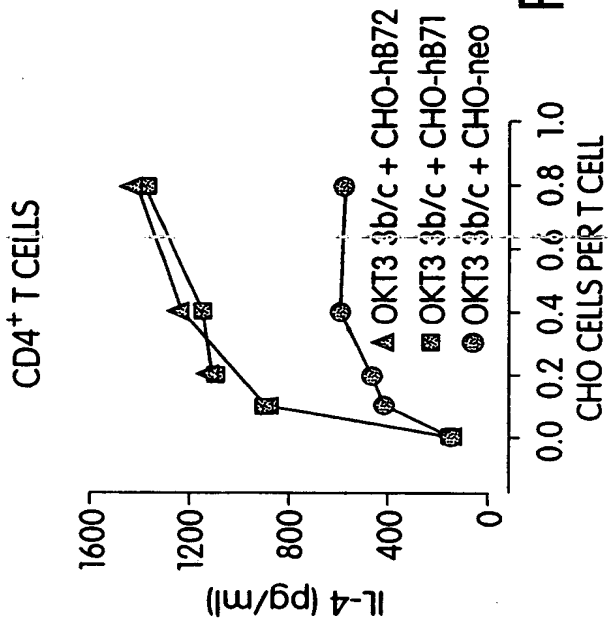


FIG. 23B

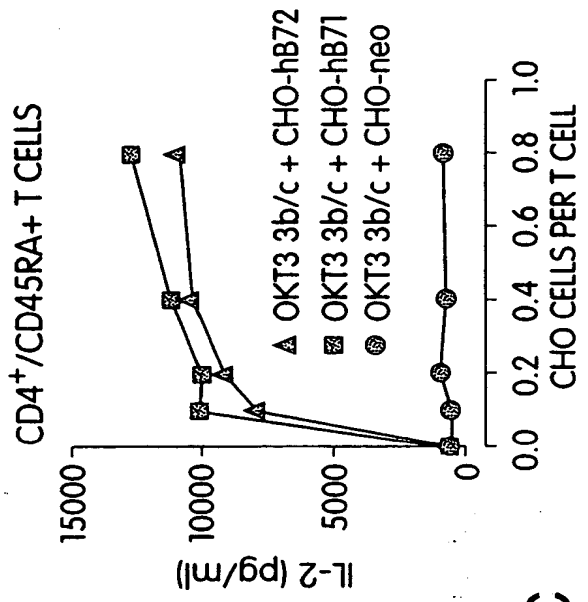


FIG. 23C

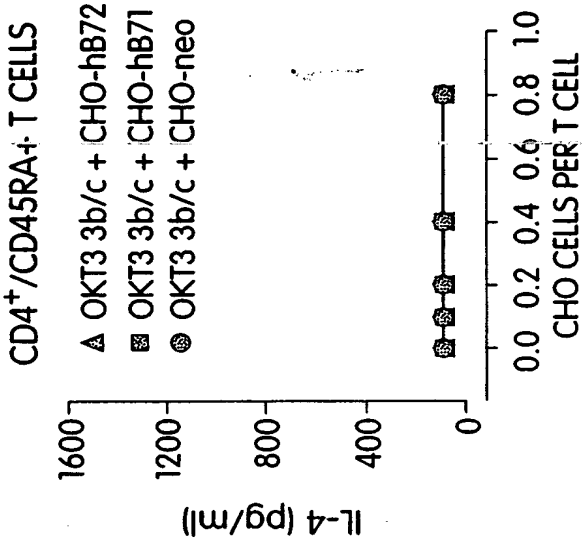
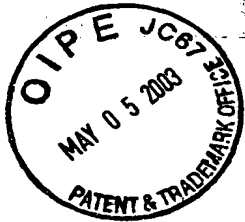


FIG. 23D



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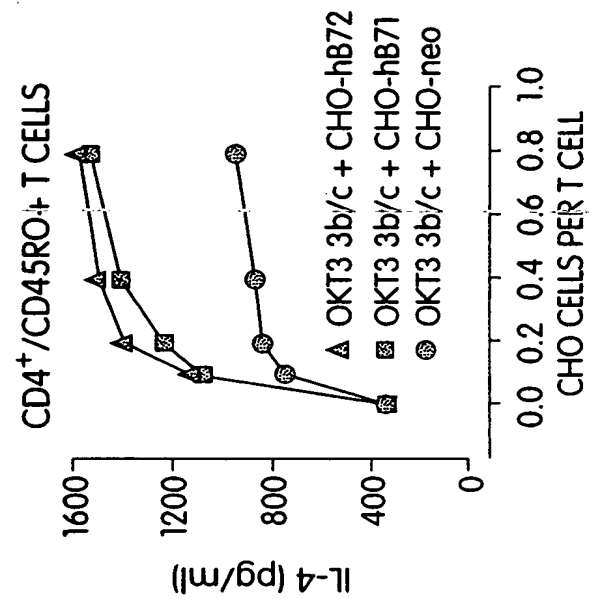


FIG. 23F

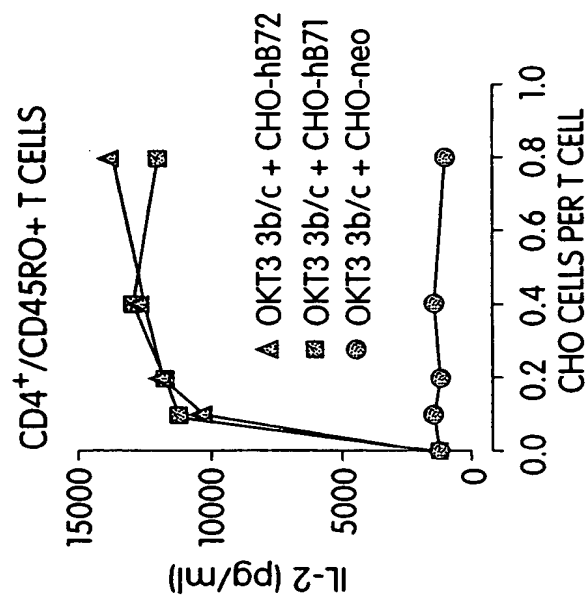


FIG. 23E



SECRET

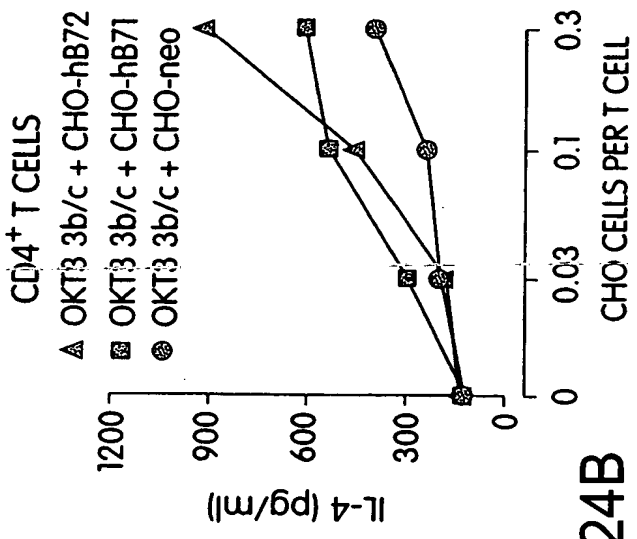


FIG. 24B

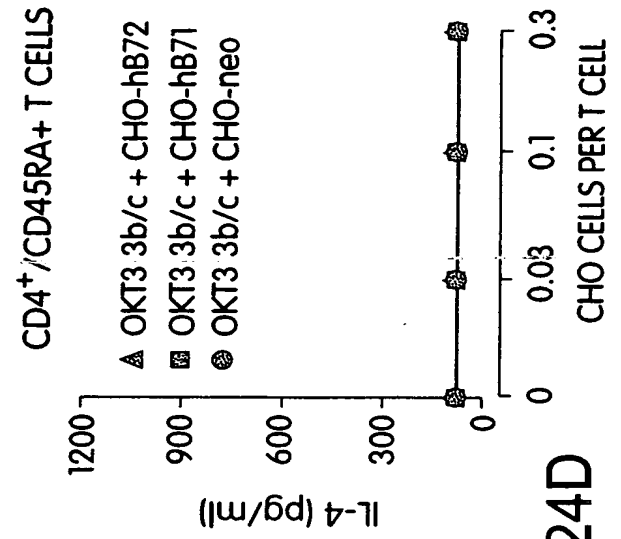


FIG. 24D

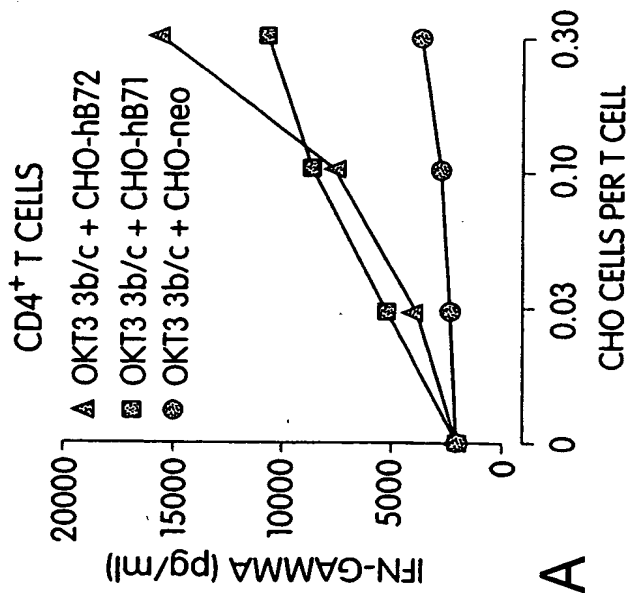


FIG. 24A

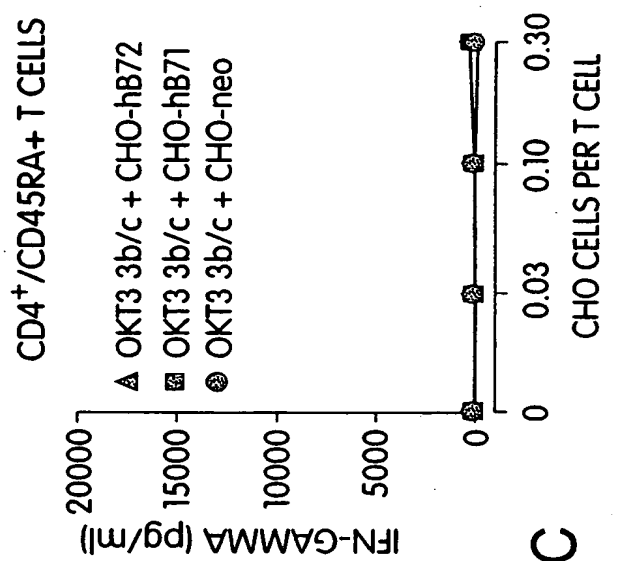


FIG. 24C

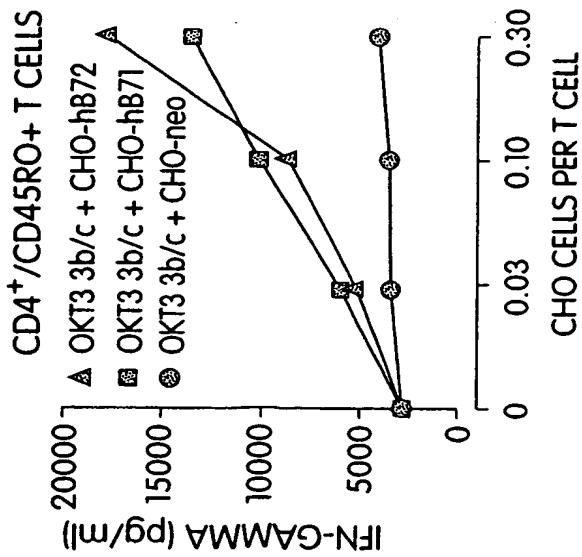


FIG. 24E

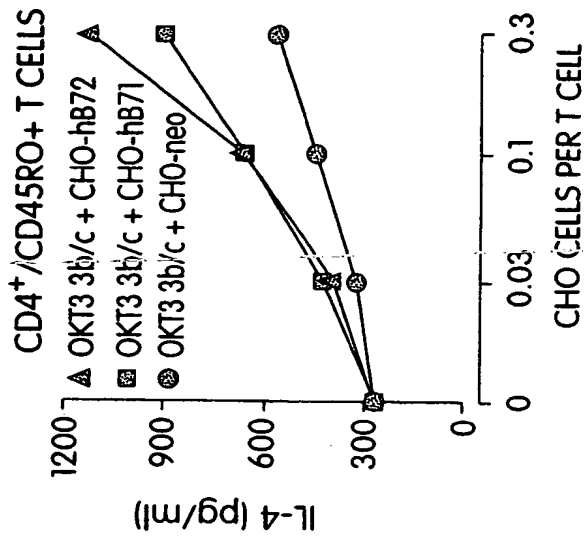


FIG. 24F





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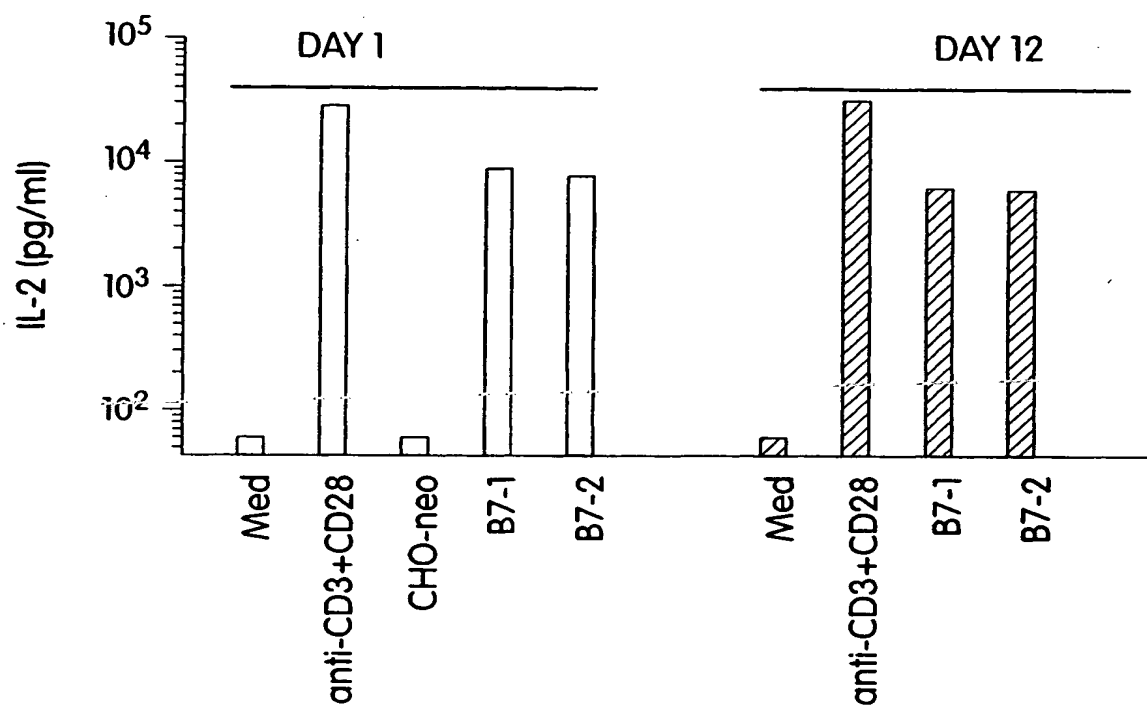


FIG. 25A

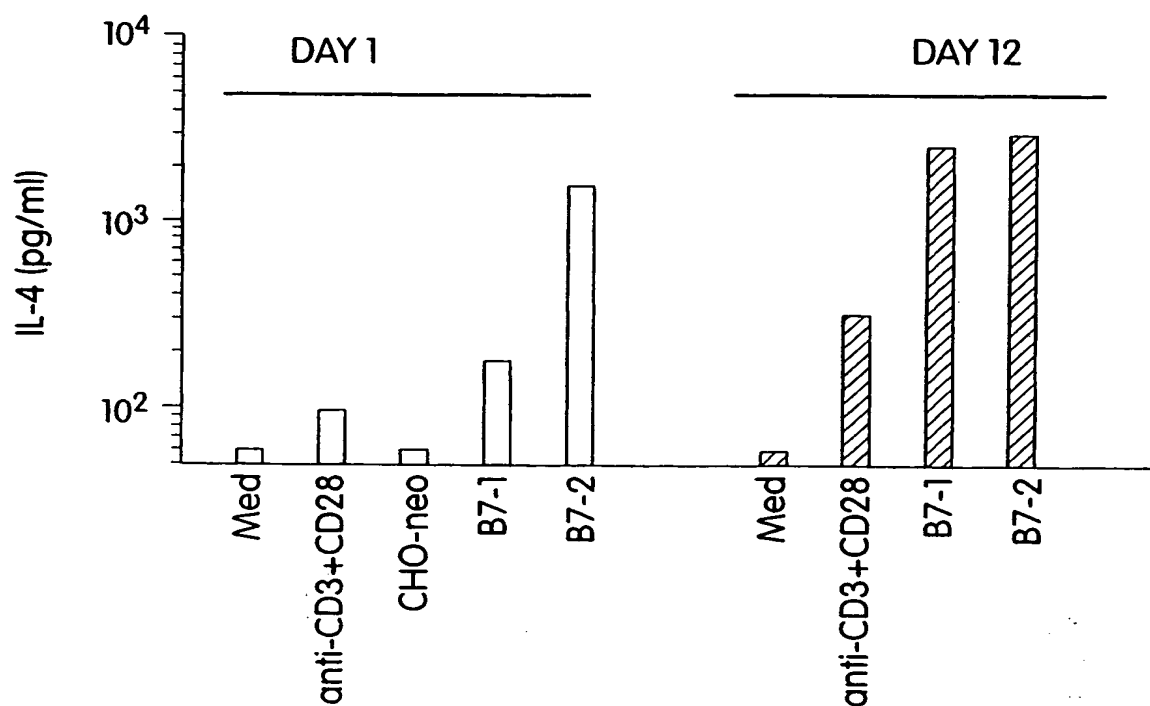


FIG. 25B

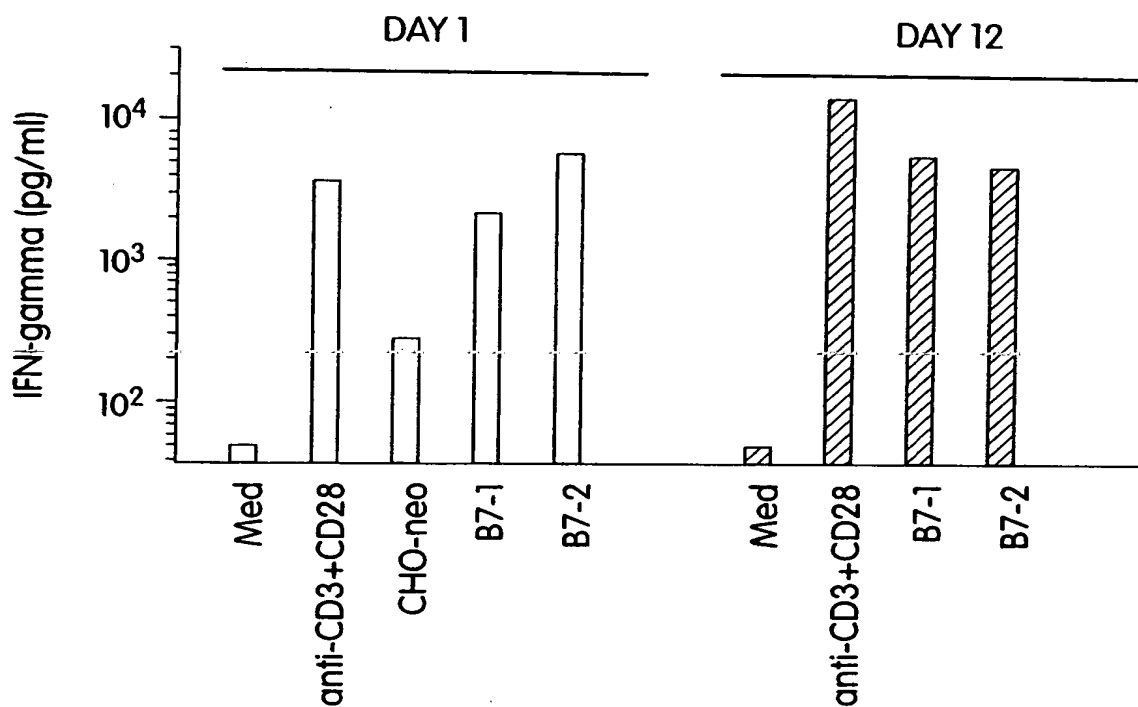


FIG. 26A

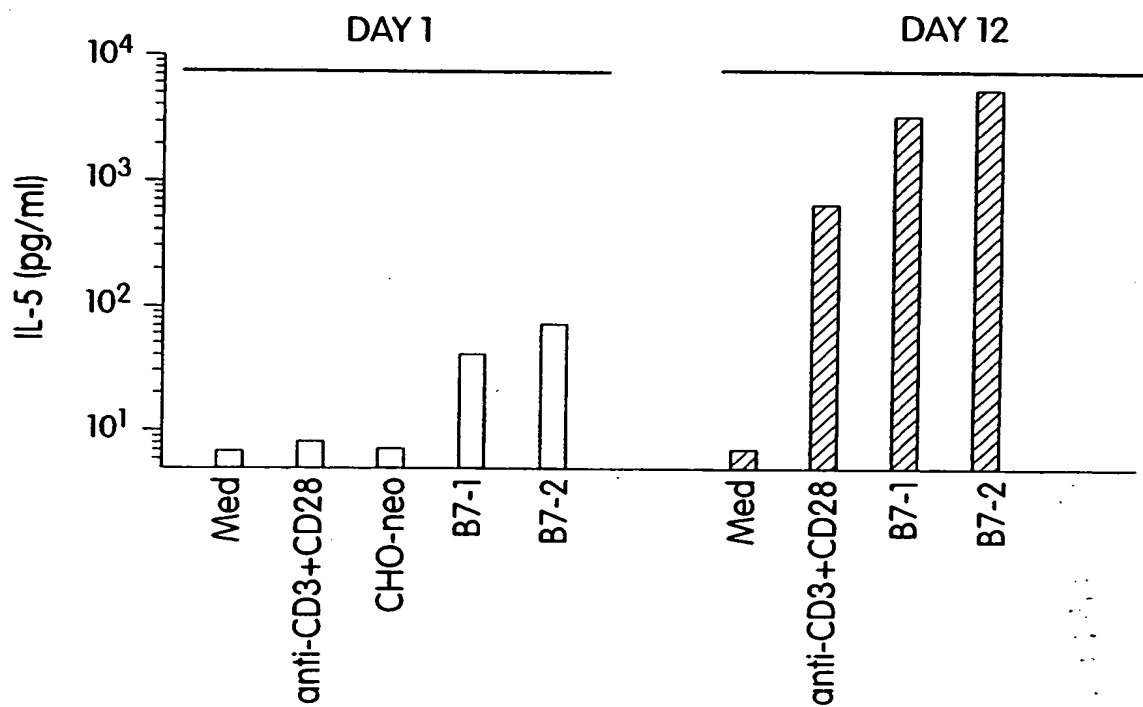
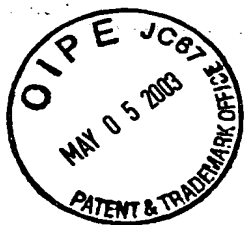


FIG. 26B



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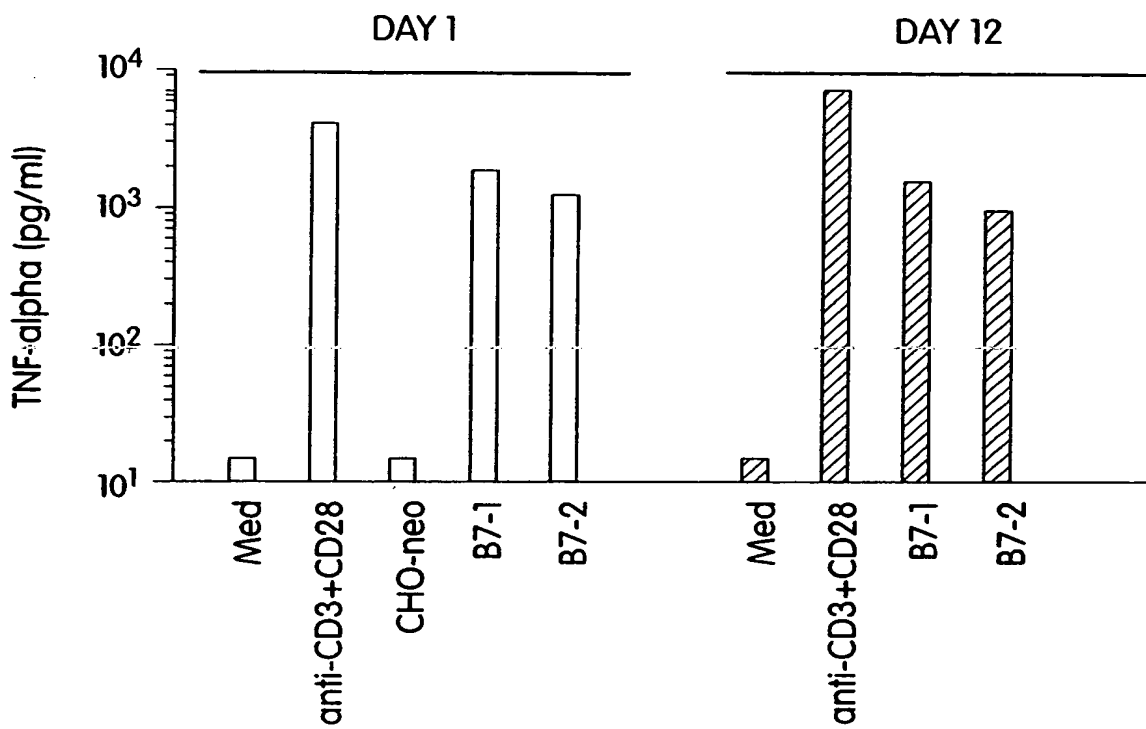


FIG. 27A

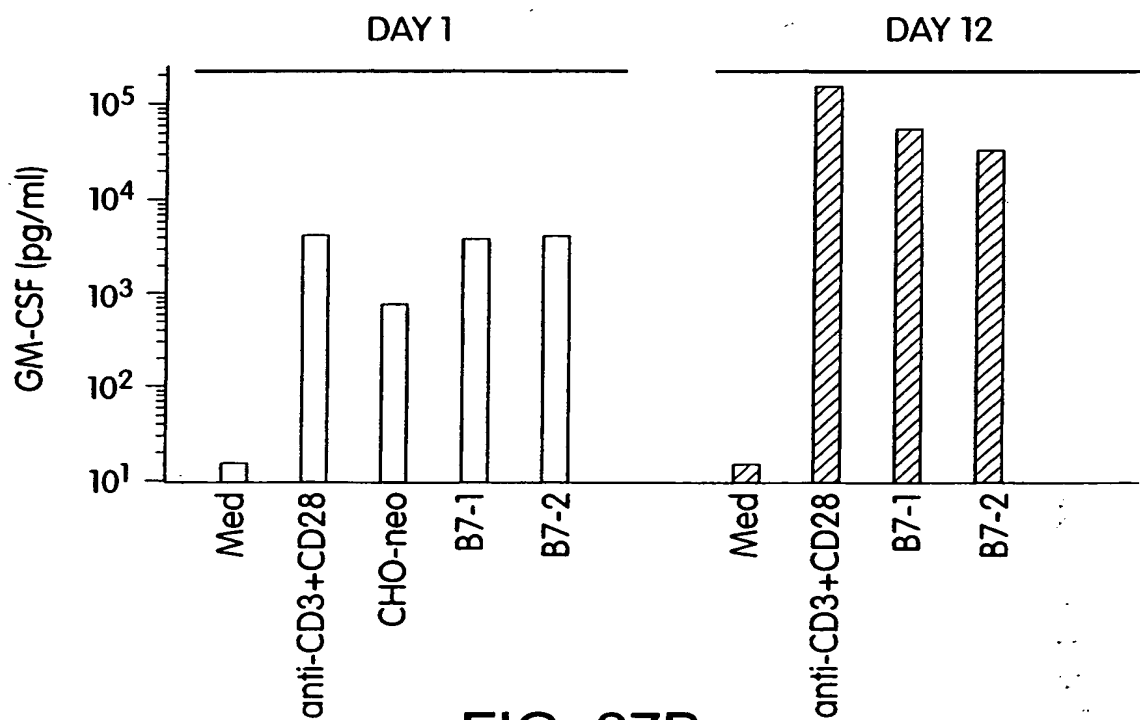


FIG. 27B



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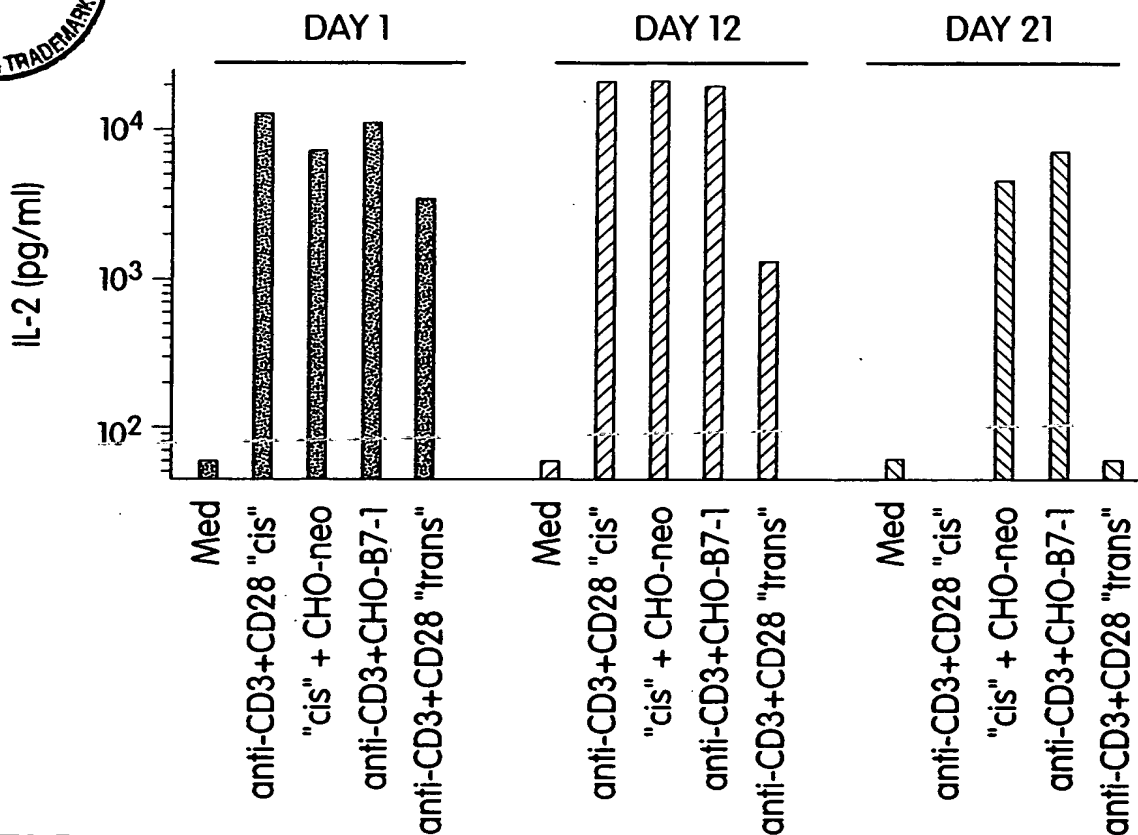


FIG. 28A

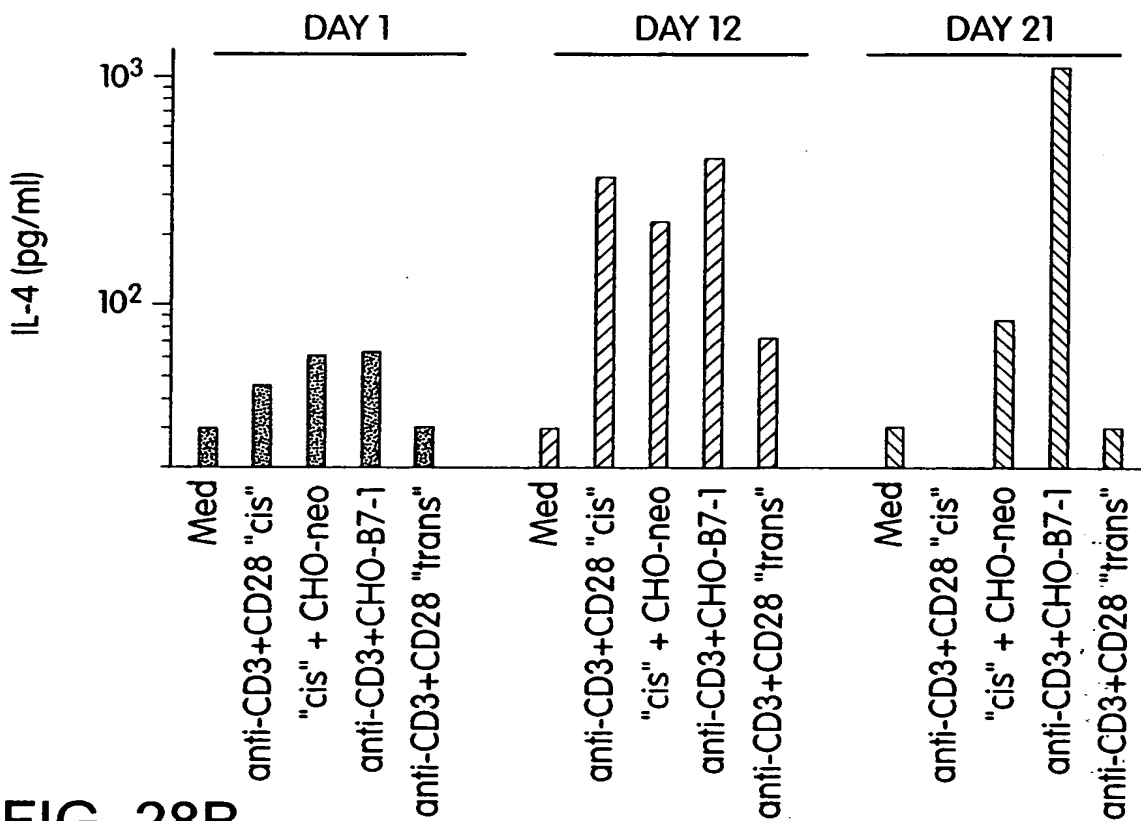


FIG. 28B



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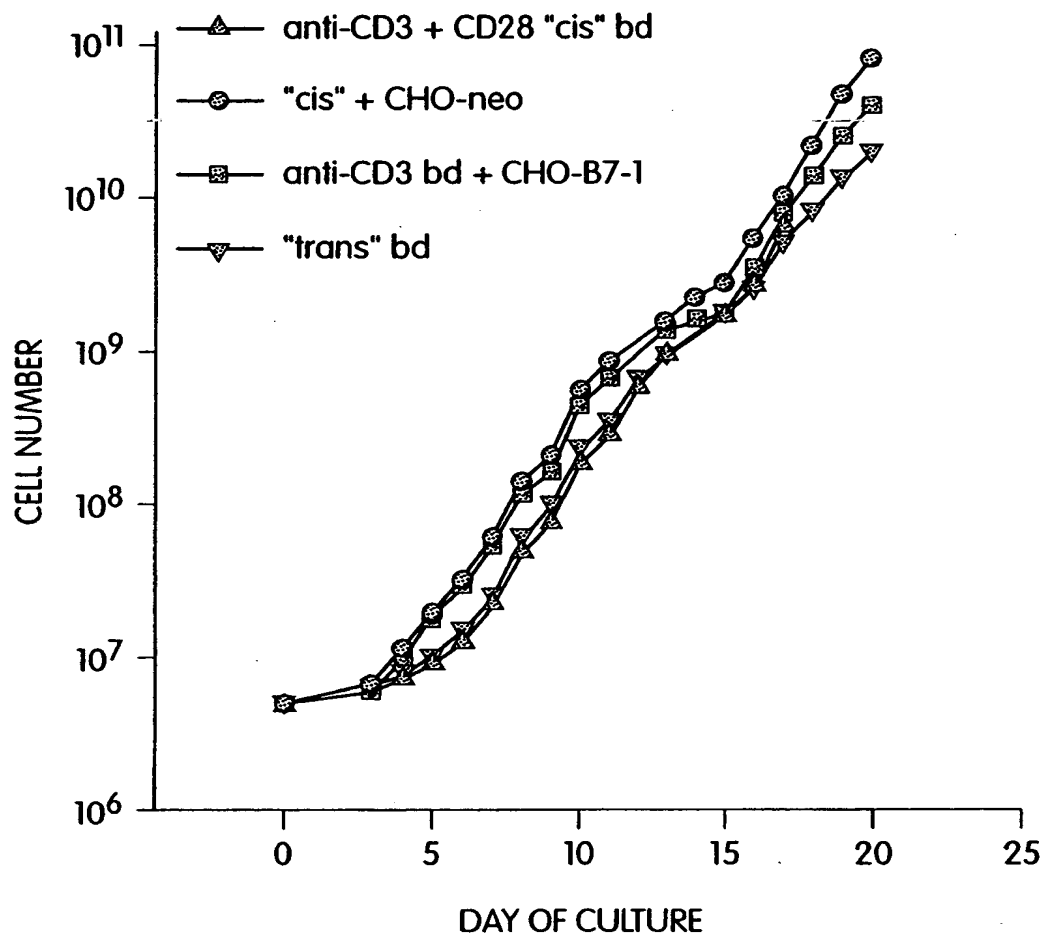


FIG. 29



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HIV Pt# 713814

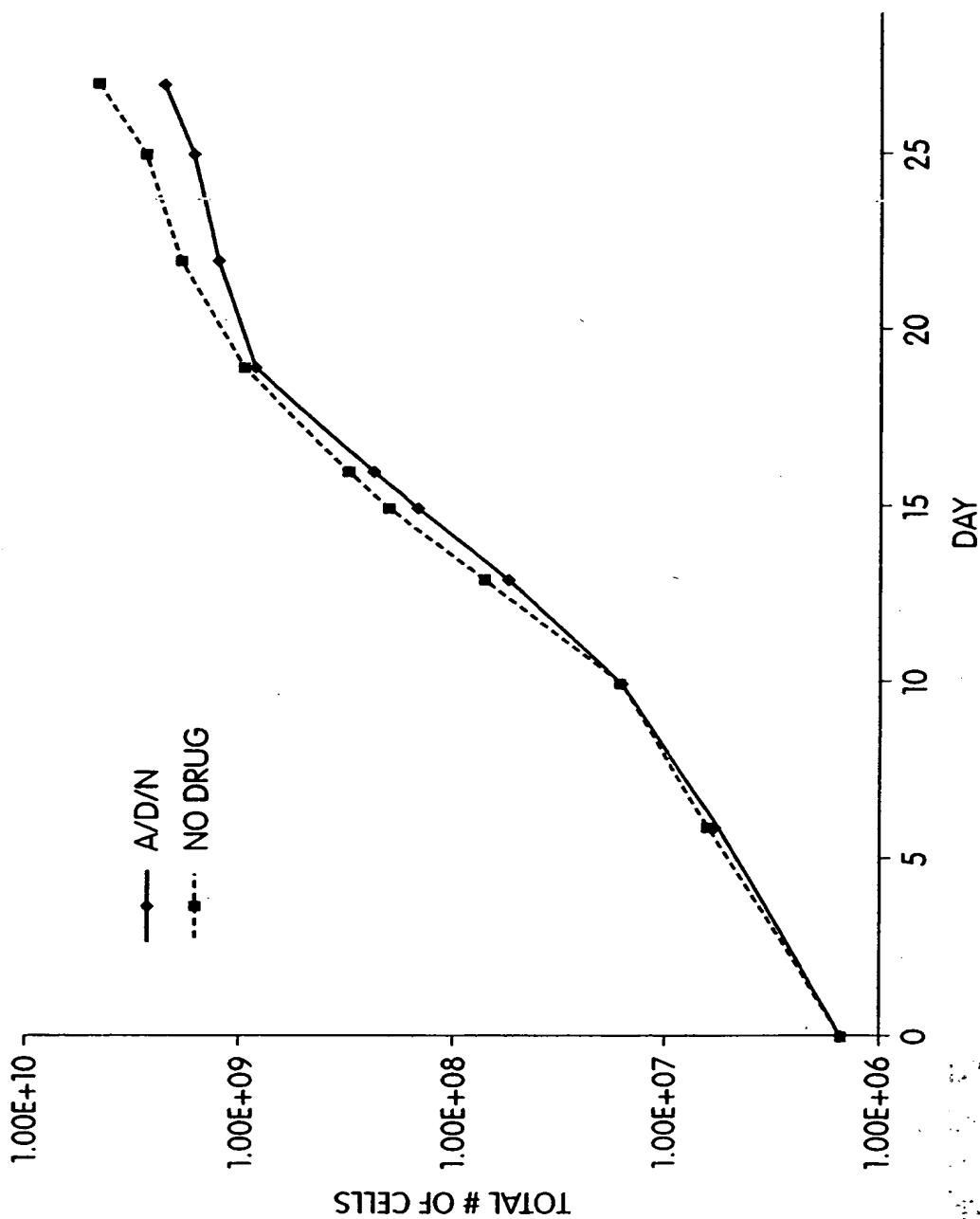
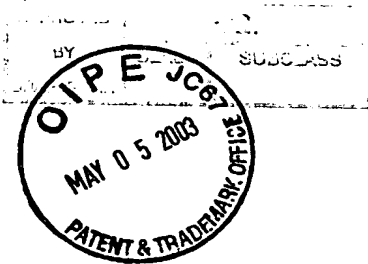


FIG. 30



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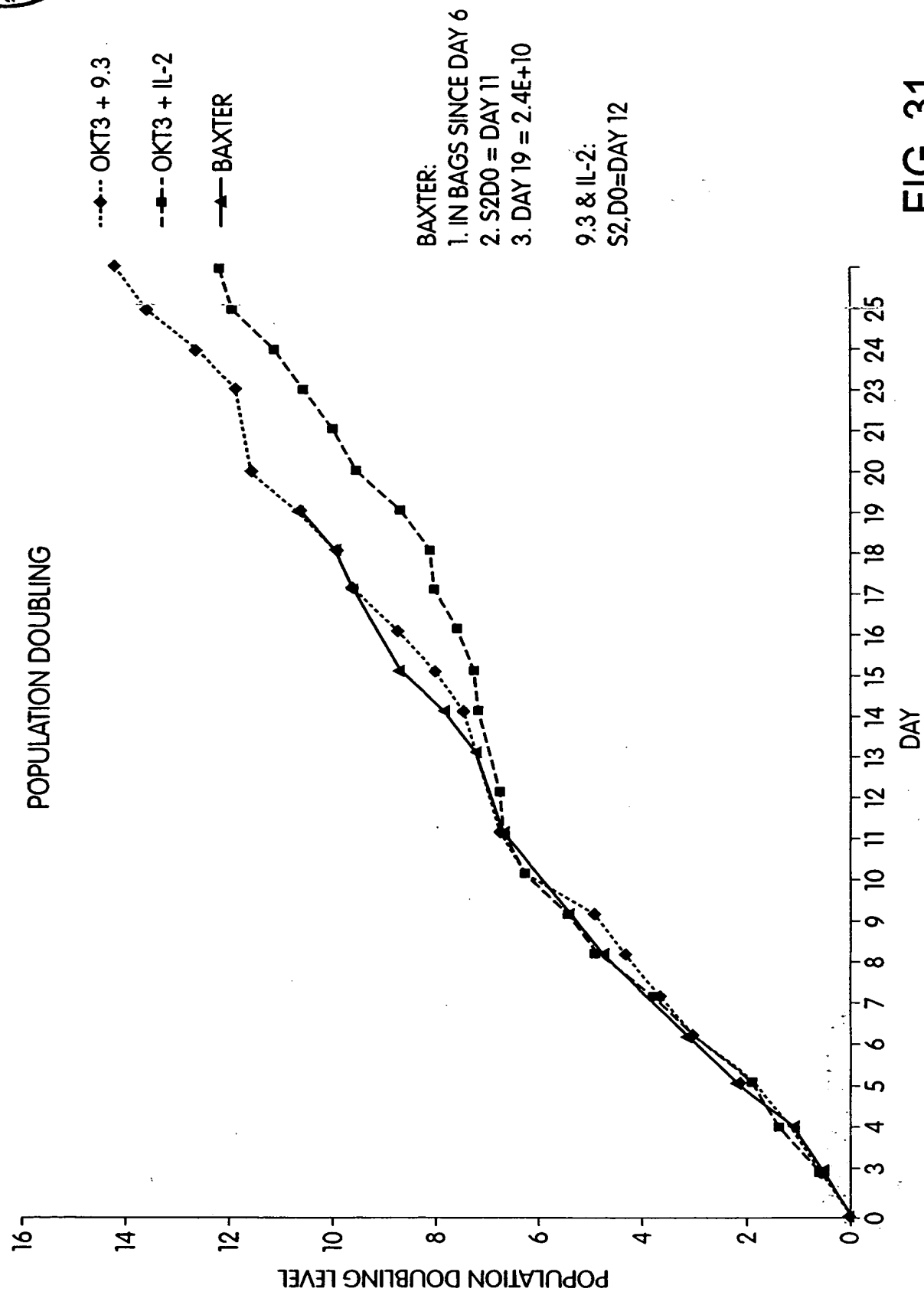


FIG. 31